

Dr. Mark Friedlander

- Specialist in anesthesiology with special interest in Chronic Pain
- Consultant in chronic pain management
- Assistant Professor, Department of Anesthesia, Faculty of Medicine at the University of Toronto.
- Medical Director of the Pinnacle Interventional Pain Centre
- Pain consultant Allevio Pain Clinic
- Staff Anesthesiologist North York General Hospital
- Active practice in pain medicine
- Expert witness/evaluator in the capacity of a Pain Specialist
- Expert testimony in Ontario Courts and arbitrations, hearings.

Training and current activity

- Medical degree at the University of Cape Town
- Specialty training in anesthesiology at the University of Toronto
- Fellowship Royal College of Physicians and Surgeons of Canada
- Research and clinical fellowship in pain management at Toronto General Hospital in 1992
- Staff Anesthesiologist at North York General Hospital since 1992
- Director of Pain management Services (1992-2007)

Memberships:

- The Spine Intervention Society
- Canadian Society of Medical Evaluators
- Canadian Anesthesiologist's Society Chronic Pain Section 2000-present
- Ontario Medical Association Section on Chronic Pain 2000-present

Certification in Independent Medical Evaluation

- American Board of Independent Medical Examiners
- Certification in Catastrophic Impairment Evaluation

CURRICULUM VITAE (2019)
Mark Friedlander MB ChB FRCPC
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Date of Birth: 1st May 1958
 Citizenship: Canadian

PROFESSIONAL DEGREES AND DIPLOMAS:

Fellow of the Royal College of Physicians of Canada (Anesthesia) 1990
 Licentiate of Medical Council of Canada (LMCC) 1986
 Federated Licensing Examination (FLEX, FWA 80) USA 1983
 Bachelor Medicine & Surgery (MB,ChB). University of Cape Town, South Africa 1981

CURRENT APPOINTMENTS:

Assistant Professor, Dept Anesthesia, Faculty of Medicine, University of Toronto,
 Consultant, Chronic Pain Management, Pinnacle Health Sciences Centre, Richmond Hill
 2005-present
 Medical Director, Pinnacle Interventional Pain Centre, Richmond Hill 2014-present
 Consultant, Chronic Pain Management, Allevio Pain Management Clinic, Toronto 2013-
 present
 Consultant, Pain Management, North York General Hospital, Toronto 1992-present
 Staff Anesthesiologist, North York General Hospital, Toronto 1992-present.
 Co-Director, Controversies in Perioperative Medicine Conferences, 1998-present.
 Independent Medical Evaluator Chronic Pain Medicine 2008-present

ASSOCIATION/SOCIETY MEMBERSHIPS

American Board of Independent Medical Examiners
 The Spine Intervention Society
 Member: Canadian Society of Medical Evaluators
 Canadian Anesthesiologist's Society Chronic Pain Section 2000-present
 Ontario Medical Association Section on Chronic Pain 2000-present
 Ontario Medical Association 1987-present
 Medical Staff Association, North York General Hospital 1992-present
 Maintenance of Competence Royal College Of Physicians and Surgeons of Canada
 Canadian Anesthesiologist's Society 1992-present.
 American Society of Anesthesiologists 1992-present.

Achievements and Activities and Previous Appointments

College of Physicians and Surgeons of Ontario: Supervisor of new Chronic Pain
 physicians for province since 2016.
 Co-Director, Controversies in Perioperative Medicine Anesthesia Conferences in
 France/Italy/Spain 1998, 2000, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017,
 2019, 2021
 OntarioMD Pilot Project Telemedicine eConsult Chronic Pain Initiative 2014-2015

Founded Acute Pain service (1991-93) at two major Toronto Hospitals: Toronto General Hospital 1990-1992 and North York General Hospital 1992-2006.

Established Continuous Epidural Analgesia Pain program North York General Hospital 1994.

Initiation Epidural Narcotic Analgesia in Obstetrics, North York General Hospital 1994.

Visiting Teacher and Clinical Anesthesiologist, Face to Face Mission, Ekaterinberg, Russia, 2000.

Volunteer, Teaching and Clinical Anesthesiologist, Interplast Humanitarian Organisation, Cusco, Peru 2006, My Tho, Vietnam 2007, Quy Nhon, Vietnam 2008, 2009, Ecuador 2010

Health through Peace: University of Toronto effort to bring together medical students from Middle Eastern Countries: 2008

Mentor, Medical Students, University of Toronto, 2007-present

Conference assistant (assistance with organizing and moderating) Anesthetic Practice (annual conference of the University of Toronto, Dept Anesthesia and annual Ontario Anesthesiologists Meeting).

Private Surgical Clinic consultant including Herzig Eye Institute, Clinics of Dr. J. Starr, Cumberland Clinic, Digestive Health Clinic.

University of Toronto Continued Medical Education Committee, Dept of Anesthesia 2000-2014

MEDICO-LEGAL AND CONSULTING WORK

Canadian Medical Protection Association: Pre-Trial assessment of ability to defend malpractice allegation involving consultant and resident anaesthetists (1994).

Consultant pain management expert in Coroner's inquiry in Maternal death. (1995).

Consultant investigator in allegations of physician incompetence in Northern community hospital. (1996).retained by Mr. Joshua Liswood., Sawyers, Liswood and Hickman

Expert Consultant medical malpractice cases both for defendants and plaintiffs.

Review of Pain Management for Windsor Regional Hospital and the Windsor Region,

Review and Report undertaken on behalf of the Hay Group Medical Consultants, 2007.

CMPA Expert witness Case of Halothane Hepatitis 2009

Personal Injury Independent Medical Evaluations 2008-present including court appearances.

Expert Consultant for Defence or Plaintiffs (Medical Malpractice).

Cases include:

Pettitt V. Dr. Rigby et al. 2014

Adlam V. Dr. Maurice Malan et al

Stryland vs Yazdanfar, Toronto Cosmetic Clinic, Liberman et al

Dr. M. Kay et al ats Jitka Dunbar 2009

Welland County General Hospital ats Bertrand

McMurter vs Sydor 2016

Wilston vs James et al 2016 and 2017

Active cases 2019: CMPA Defence and Plaintiff

Expert Consultant in Pain Medicine for Defence or Plaintiffs (Personal Injury).

Too numerous to list. I have been involved in this work since 2006.

COURT or ARBITRATION EXPERIENCE

Petrucelli vs Canada Tire Corporation CV-09-097011-00 2014 (Court Trial)
 Waleed Abousamak 2015
 Maude vs State Farm 2014
 Feltmate 2012
 McLeish Ottawa January 2017
 McKnight Brantford April 2017 (Court Trial)
 Khoshaba (Hamilton) February 2018 (Court Trial)
 Little January 2018, (Brantford) Arbitration
 LAT hearing Tewelde (Toronto) November 2018
 A. Hussein trial (Ottawa) January 2019

Meetings Courses and Conferences attended in last 10 years.

Canadian Society of Medical Evaluators Catastrophic Impairment Assessment 2020
 American Society of Anesthesiologists 12-14 October 2018
 Spine Therapy Network Symposium, March 2-3, 2018
 1st National Neuropathic Pain Day 2nd December 2017
 American Board of Independent Medical Examiners April 2-4, 2016
 Spine Intervention Society Lumbar Procedures Bio-Skills Lab Memphis 2014
 International Symposium on Ultrasound, Regional Anesthesia and Chronic Pain 2014
 Anesthetic Practice University of Toronto 2009, 2010, 2011, 2012
 Spine Intervention Society Radiofrequency Ablation Lab Baltimore 2014
 Controversies in Perioperative Medicine 2009, 2011, 2013, 2015, 2017, 2019
 Canadian Society of Medical Evaluators Update 13th November 2015
 Canadian Institute's Expert Witness Forum 2015
 American Society of Anesthesiologists Annual Meeting 2009, 2011

PAST APPOINTMENTS:

Medical Director (and founder), Acute Pain Service, Toronto General Hospital 1991-1992
 Medical Director (and founder), Pain Management Service, North York General Hospital 1992-2006
 Director, Obstetric Anesthesia, North York General Hospital 1995-2000.
 Search Committee, Chief of Anesthesia, North York General Hospital, 2006
 Member at Large, Executive of the Section of Anesthesia, Ontario Medical association 2005-2007
 Committee Member: Obstetric Planning Committee, North York General Hospital 1992-1996.
 Committee Member: Maternal Newborn Program, North York General Hospital 1992-1996
 Committee Member: Pediatric Surgery Advisory Committee, North York General Hospital 1992-96
 Chair, Environment Committee, Anesthesia Section, Ontario Medical Association 2006-2010
 Business Manager, Department Anesthesia, North York General Hospital, 2000-2013
 PACU committee, North York General Hospital 2006-2011
 OR Coordinator, North York General Hospital, 2008-2012

LICENSURE

1987 General License, Province of Ontario, Canada.

1985 Medical License, Province of Saskatchewan, Canada
 1984 Medical License, State of Washington, USA
 Medical Council of Canada Evaluating Examination (MSS).
 1983 Medical License General Medical Council of Great Britain.
 Medical License Republic of South Africa.
 Visa Qualifying Examination (VQE) USA.
 1982 ECFMG Certification, USA.

1991-92

Staff Anesthesiologist, Toronto General Hospital, University of Toronto.
 Cross-Appointment: Dept. Obstetrics, Gynecology and Neonatology, Toronto General Hospital,
 Director and Founder, Acute Pain Service, Toronto General Hospital
 Director, Obstetric Anaesthesia, Toronto General Hospital.
 Coordinator, Resident Electives in Pain Management.
 Investigator, Acute Pain and Anaesthesia Research 1990-2000
 Joint Practice Committee, Obstetrics and Gynaecology.
 Prenatal Teacher, Childbirth Education, Toronto General Hospital 1991-1992.

ANESTHESIA AND PAIN MANAGEMENT TRAINING

1990-1991

Clinical and Research Fellow in Anesthesia and Pain Management, Toronto General Hospital
 Research in Postoperative Pain and Pre-emptive Analgesia (pain prevention). Clinical responsibilities included the development and management of the Acute Pain Service, clinical anesthesia including Cardiac, Thoracic, General and Gynecological Surgery, Liver and Lung Transplant.
 Responsible for the coordination of Obstetric Anesthesia Services between a large Anesthesia Department and a busy Teaching Obstetric Unit.

1987-1990

Resident training in Anesthesia, University of Toronto:

June -Dec. 1987: Mt. Sinai Hospital.
 Jan.-June 1988: Wellesley Hospital.
 July-Dec. 1988: St. Michael's Hospital.
 Jan.-June 1989: Hospital for Sick Children.
 July-Dec. 1989: Sunnybrook Medical Centre.
 Jan.-June 1990: Clinical Research Resident, Toronto General Hospital.

1986-1987

Resident , Internal Medicine, La Guardia Hospital, New York City, Cornell Medical College and Northshore University, New York, NY

MEDICAL PRACTICE

1985-1986

Family Practice - solo private practice in a rural community, Kindersley, Saskatchewan, Canada. Active Staff Member, Kindersley Union Hospital. Busy obstetric and paediatric practice.

1985

Resident Medical Officer, The London Clinic, London, England. (Internal Medicine and Oncology).

1984

Family Practice with Obstetrics and In-patients, Canora, Saskatchewan, Canada.

Family Practice, with Obstetrics and In-patients, Bengough, Saskatchewan.

House Officer, Northwick Park Hospital, London, England. (Cardiology, General Surgery, Orthopaedics). Postgraduate training in Psychiatry. Locum posts in various London Teaching Hospitals (Obstetrics, Gynaecology, Respiratory and Emergency Medicine).

1983

Family Practice, Durban, South Africa.

Medical Officer, Sir Albert Robinson Mine Hospital, Johannesburg Gold Reef, South Africa. Experience in Infectious Disease, Trauma and Anaesthesia.

Medical Officer, Somerset Hospital, Cape Town, South Africa. Emergency Medicine.

Senior House Officer in London, England. (Hammersmith, Northwick Park, Stoke Mandeville). Experience in Emergency Room, Internal Medicine, Geriatrics, Obstetrics and Gynaecology.

1982

Rotating Internship. Groote Schuur Hospital, University of Cape Town, South Africa. Medicine, Surgery, Paediatrics, Obstetrics and Gynaecology.

COURSES AND ELECTIVES

1994 Physician in Charge, March of the Living Youth Program in Poland and Israel

1990 Patient Controlled Analgesia, Vancouver.

Advanced Cardiac Life Support Course.

1989 Paediatric Critical Care, Hospital for Sick Children, Toronto.

Chronic Pain Management, Sunnybrook Medical Centre, Toronto.

Elective in Anaesthesia at Hadassah Medical Centre, Hebrew University of Jerusalem and Tel Hashomer Medical Centre, University of Tel Aviv, Israel.

1988 Regional Burn Centre, Wellesley Hospital, Toronto.

1987 Neonatal Resuscitation Course, Mt. Sinai Hospital, Toronto.

1986 Advanced Trauma Life Support Course.

1980 Rural Mission Hospital, Eastern Transvaal, South Africa.

REFEREED PUBLICATIONS

1. Meperidine to control shivering associated with platelet transfusion reaction. Friedlander M, Noble W. Can J Anaesth 1989; 36:4, 460-2.
2. An Unusual Reaction to Precurarisation. Friedlander M, Brebner J. Can J Anaesth 1991:38;7;944

3. Epidural vs Intravenous Fentanyl infusion in Post-thoracotomy patients: Analgesic and pharmacokinetic effects. L Panos, AN Sandler, DG Stringer, N Badner, S Lawson, M.Friedlander, G.Koren. Can J Anaesth 1990;37:S66
4. Epidural vs Intravenous Fentanyl infusion in Post-thoracotomy patients: Analgesic and pharmacokinetic effects. L Panos, AN Sandler, DG Stringer, N Badner, S Lawson, M.Friedlander, G.Koren. Anesthesiology 73:3A:A831, 1990
5. Epidural vs Intravenous Fentanyl infusion in Post-thoracotomy patients: Respiratory effects. DG Stringer, AN Sandler, L Panos, N Badner, S Lawson, M Friedlander. Can J Anaesth 1990;37:S16
6. Hypoxic Pulmonary Vasoconstriction in Single Lung Anaesthesia in Human Subjects. M Friedlander, AN Sandler, B Kavanagh, S Lawson, L Panos, T Winton, J Benumof. Can J Anaes 1991;38;4(II) A95
7. A Double blind, Placebo controlled trial of Transdermal Fentanyl for Post-Hysterectomy Pain Relief. II: Respiratory Effects. AN Sandler, AD Baxter, P Norman, B Samson, M.Friedlander, S Lawson, K Hull. Can J Anaesth 1991:38:4(II),A114
8. Double blind, Placebo controlled trial of Transdermal Fentanyl for Post-Hysterectomy Analgesia. AN Sandler, AD Baxter, P Norman, B Samson, M.Friedlander, Anesthesiology 75:3A:A707,1991
9. A Randomized double-blind comparison of Lumbar Epidural and Intravenous Fentanyl infusions for Post-Thoracotomy Pain Relief: Analgesic, Pharmacokinetic and Respiratory Effects. AN Sandler, D Stringer, L Panos, N Badner, M Friedlander, G Koren, J Katz, J Klein Anesthesiology, 77:4;626-634,1992
10. Does Pre-incisional Multi-Modal Nociceptive Blockade Reduce Post-Operative Pain? J Katz, AN Sandler, H Nierenberg, S Roger, J Boylan, M Friedlander Canadian Pain Society 1992
11. Pain after Thoracic Surgery involves a Sensory Memory-like Mechanism. J Katz, B Kavanagh, AN Sandler, H Nierenberg, M Friedlander, J Boylan,
12. Is Post-operative Pain reduced by preoperative multimodal nociceptive blockade? A randomized, double blind, placebo controlled study. B Kavanagh, J Katz, AN Sandler, H Nierenberg, J.Boylan, A Davies M.Friedlander, Can J Anaes 39:5;1992;A76
13. Pain and narcotic use following thoracic surgery are reduced by lumbar epidural fentanyl: a randomized prospective double-blind crossover study. B Kavanagh, J Katz, AN Sandler, H Nierenberg, J.Boylan, M.Friedlander, A Davies Can J Anaes 39:5;1992;A79
14. Preemptive Analgesia. J Katz, B Kavanagh, AN Sandler, H Nierenberg, J Boylan, M.Friedlander, B Shaw. Anesthesiology, 77:439-446,1992.

15. Hypoxic Pulmonary Vasoconstriction in Single Lung Ventilation in the Lateral Decubitus Position. *Anesth Analg* 1992;74:S100 M.Friedlander, AN Sandler, B Kavanagh, T. Winton, J Benumof.
16. Transdermal fentanyl: Postoperative Analgesia with analgesic and respiratory effects. AN Sandler, A Baxter, B Samson, S. Roger K Hull J Katz, M.Friedlander, M Clairoux. *Int Assoc Study Pain* August 1993.
17. Postoperative analgesia with transdermal fentanyl, analgesic and respiratory effects. AN Sandler, A Baxter, B Samson, S. Roger K Hull J Katz, M.Friedlander, M Donnelly *Can J Anaesth* 40: 5;1993;A51.
19. Is hypoxic pulmonary vasoconstriction important during one lung ventilation in the Lateral Decubitus Position? M.Friedlander, A.Sandler, B.Kavanagh, T.Winton, J.Benumof. *Can J Anaesth* 1994;41:1;26-30
20. A double blind comparison of ropivacaine 0.5%, 0.75%, 1.0% and bupivacaine 0.5%, injected epidurally, in patients undergoing abdominal hysterectomy. BT Finucane, AN Sandler, J Mckenna, D Reid, AL Milner, M. Friedlander, D Muzyka, S O'Callaghan-Enright, V Chan. *Can J Anaesth* 1996/43:5:442-9
21. Pharmacokinetics of three doses of epidural ropivacaine during hysterectomy and comparison with bupivacaine. AN Sandler, E. Arlander, BT Finucane, A Taddio, V Chan, A Milner, SO Callahan-Enright, M Friedlander, D Muzyka *Can J Anaesth* 1998/45:9/843-849
22. Prospective study on incidence of transient radicular irritation, clinical efficacy and recovery profile with 1% hyperbaric spinal lidovaine in short urological procedures. D Tong, F Chung, M Friedlander, J Bremang, J Wong, G O'Leary, D Streiner *Anesthesiology* V89, No 3A, Sept 1998, A19.
23. Comparison of Epidural anaesthesia with ropivacaine 0.5% and bupivacaine 0.5% for Caesarean Section. E. Crosby, A Sandler, B Finucane, D Writer, D. Reid, J McKenna, M. Friedlander, A Miller, S O'Callaghan-Enright, H Muir, R Shukla. *Can J Anaesth* 1998/45:11/pp1066-1071

NON REVIEWED PUBLICATIONS

The Acute Pain Service: How to establish one in a Community Hospital. *Cont Anaesthesia* 3:4;1993 pp13-19 M. Friedlander

GUEST LECTURER

Visiting Lecturer

Guest lecturer and teacher Chronic Pain University of Stellenbosch, Cape, South Africa
March 2016

Conferences

Analgesia in Obstetrics. **Symposium for Obstetrical Nurses**, May 1991 (Toronto General Hospital).

"Anaesthesia - What's new?" **Surgical Update**, NYGH Ramada Renaissance Hotel, December 2, 1993.

"Epidural Analgesia in the Community Hospital" **Anaesthetic Practice '93, Royal York Hotel, Toronto**, 5th November, 1993.

"Is PCA without risk?" **Anaesthetic Practice '95, University of Toronto**, November 1995.

Setting up an Acute Pain Service in the Community Hospital. Workshop, **Regional Anaesthesia & Analgesia '98. University of Toronto**, Hotel Inter-Continental, Toronto, October 1998.

Epidural Analgesia on the floor with PCEA. Regional Anaesthesia Conference, **An ASTRA Symposium**, Deerhurst Resort, May 1999.

How to Initiate an Epidural service on the floor. **Regional Anaesthesia & Analgesia '98. University of Toronto**, Hotel Inter-Continental, Toronto, October 1999.

Lectures

"General, Regional and Continuous Spinal Anaesthesia" Lecture, **Lyphomed Canada Inc.** 31 January, 1991.

"Epidural and Spinal Narcotics in Obstetrics", **Telemedicine Canada**, May 7, 1992.

Setting up a PCA program. **Telemedicine Canada**, May 1995

"Anaesthesia" Radio Talk Show, **CFRB 1010 Toronto**, January 1996.

"Pain Management" Radio Talk Show, **CFRB 1010 Toronto**, March 1996.

Grand Rounds

"Spinal Opioids in Obstetric Anaesthesia" presented at combined Grand Rounds of Departments of Obstetrics and Anaesthesia, Toronto General Hospital (Jan.1991).

Postoperative Pain Management, **Department of Physiotherapy**, Toronto General Hospital, March, 1991.

"Patient Controlled Analgesia and Epidural Narcotics for Postoperative Analgesia in Thoracotomy Patients". **Department of Thoracic Surgery**, Toronto General Hospital, April, 1991.

Acute Pain Management in Medical Patients. **Department of Internal Medicine**, Toronto General Hospital, April, 1990.

"Post-Caesarean Section Analgesia- What's new?" Department of Obstetrics, North York General Hospital, February 1992.

"What's involved in starting an Acute Postoperative Pain Program" **Departments of Nursing and Pharmacy**, North York General Hospital, 26th August, 1992.

"What's new in Anaesthesia" **Department of Medicine**, North York General Hospital, 10 February, 1993.

"Introducing PCA to your patients and our hospital. " **Surgical Grand Rounds**, NYGH, September 23, 1993.

"Modern Pain Control Options" **North York General Hospital Core Lecture Series**, December 1993.

Obstetric analgesia and "Walking Epidurals", **Dept. Family Practice Grand Rounds**, December 1995.

Analgesia for Genetic Termination: A Symposium. **Dept. Genetics**, North York and Credit Valley Hospitals, November 1996.

ACLS review: Dept. Nursing, **North York General Hospital** Nov. 1997

Volunteering in the developing World: working with Interplast, May 2008 (North York General Hospital)

Back Pain. Guest lecturer for National Pain Week, 6.11.2019 (North York General Hospital)

TEACHING

Teaching is an integral part of the work of an anesthesiologist at North York General Hospital and Chronic Pain practitioner. Teaching occurs in all aspects of daily clinical practice. There are always medical students, residents and allied health care trainees who seek and receive teaching in the course of clinical activities. Most of these are undocumented occurrences.

Antenatal Education, Toronto General Hospital (Sept.1990- Jan.1992).

Education in Patient Controlled Analgesia and Epidural Narcotics, Toronto General Hospital 1990-1991.

Current teaching in Dept Anesthesia, North York General Hospital (Emergency Medical Services Technicians, Respiratory Therapy Students, Anesthesia Assistants, Medical Students, Obstetric Residents, Anesthesia Residents) 1992-present.

Journal Subscriptions

Pain Medicine: (Journal of the American Academy of Pain, Faculty of Pain Medicine of Australia and New Zealand and ISIS)

Anesthesiology, Journal of the American Society of Anesthesiologists

