

**University of Toronto**  
**Department of Anesthesia**  
**Annual Report**  
**Women's College Hospital**  
**Department of Anesthesia**  
***For the period July 1, 2008 to June 30, 2009***

**1. General Information:**

Dr. P. Angle:

- Assistant Professor, Anesthesiology
- BSc, MD, FRCPC, Diplomat ABA, MSc (clin epi)
- Active Staff Women's College Hospital and Sunnybrook Health Sciences Centre
- Associate Scientist, Sunnybrook Research Institute
- Director, Obstetrical Anesthesia Research Unit (OARU), Sunnybrook Research Institute, 2008 to present

Dr. V. Chinnappa:

- Assistant Professor, Anesthesiology
- MBBS, MD, FCARCSI.
- Active Staff Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. D. Djordjevic:

- Assistant Professor, University of Toronto
- MD, FRCPC
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. M. Davallou:

- Assistant Professor, University of Toronto
- MD, FRCPC
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. S. Halpern:

- Professor of Anaesthesia
- MD M Sc, FRCPC
- Associate Professor, Obstetrics and Gynaecology
- Division Head, Obstetrical Anesthesia, Sunnybrook Health Sciences Centre
- Active Staff Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. K. Hussain:

- Assistant Professor, University of Toronto
- MB BS FFARCSI, FRCPC
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. J. Kronberg,

- Associate Professor, Anaesthesia, University of Toronto
- PhD, MD, CCFP, FRCP(C), DABA
- Chief, Department of Anaesthesia, Women's College Hospital
- Active Staff Sunnybrook Health Sciences Centre

Dr. Andrew McNaught:

- Assistant Professor, University of Toronto
- MBBS FRCA
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre

Dr. A Morgan:

- Assistant Professor, University of Toronto
- MB, ChB FRCPC
- Staff Anesthesiologist Women's College Hospital and Sunnybrook Health Sciences Centre
- Director, Pain Management Services, Chronic Pain Clinic

Dr. P. Morgan:

- Professor, Anaesthesia, University of Toronto
- MD, CCFP, FRCPC
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre
- Director, Simulation Research, Canadian Simulation Centre for Human Performance and Crisis Management Training, Sunnybrook Health Sciences Centre
- Consultant Anesthesiologist, Women's College Hospital, Sunnybrook Health Sciences Centre

Dr. M. Srebrnjak:

- Assistant Professor, Anaesthesia, University of Toronto
- MD, FRCPC
- Active Staff, Women's College Hospital and Sunnybrook Health Sciences Centre

**2. Current Research Interests:**

Dr. P. Angle:

- Patient Safety: Knowledge Generation and prevention of post Dural Puncture Headache after Regional Anesthesia
- Building a foundation for Evidence-based assessment of Labour Pain/Pain Relief for use in clinical trials
- Examining Ontario Provincial Health Services Capacity in Contributions and Direction of Research Program
- Improving Post Cesarean Pain Relief

Dr. V. Chinnappa:

- Dexamethasone as an analgesic in abdominal hysterectomy
- Horner syndrome after epidural anesthesia
- Efficacy of low dose promethazine for postoperative nausea and vomiting

Dr. M. Davallou:

- Assisting Dr. P. Angle in the Post dural puncture headache clinical trial

Dr. S. Halpern:

- Labour Analgesia
- Patient Safety
- Ultrasound for neuraxial blocks

Dr. K. Hussain:

- Analgesia for breast reconstructive surgery on out-patient basis
- Diagnostic plan for postpartum nerve injuries

Dr. J. Kronberg:

- Best practices for Ambulatory Anesthesia
- Collaboration with Obstetrical Anesthesia research

Dr. A. McNaught:

- Interscalene Brachial Plexus Block
- Intra-articular analgesia for shoulder surgery
- Abdominal nerve blockade for gynaecological laparoscopic surgery

Dr. A. Morgan:

- Was on sabbatical leave August 1, 2008 to July 31, 2009.
- Further develop knowledge and skills in chronic pain management

Dr. P. Morgan:

- Patient safety
- Team training using simulation
- Human factors and patient safety
- Surgical safety checklist

Dr. M. Srebrnjak:

- Developing a clinical study investigating the efficacy of rectus sheath blocks for postoperative pain relief following laparoscopy.

### **3. Chairs, Honors and Awards**

Dr. P. Angle:

- Merit Award (funded research time, \$40,000CN/yr for 2yrs), Department of Anesthesia, University of Toronto (2009-2011)
- Recipient: *Leadership Initiative* Scholarship, Ontario's Anesthesiologists / Fresenius Kabi, ( May, 2009-2010)
- Member, Maternal Newborn Advisory Council, Provincial Council for Child Health, Senior Advisory Body to the Ontario Ministry of Health and Long Term Care, Discipline: Obstetrical Anesthesia ( 2008 to present)

Dr. K. Hussain:

- Chair of CME accredited rounds committee

Dr. P. Morgan:

- Chair, Patient Safety Committee, Canadian Anesthesiologists' Society
- Past Chair, Obstetrics Section, Canadian Anesthesiologists' Society

### **4. Invited Lectures 2008-2009 – author(s), event, location, title of lecture, and date(s)**

Dr. P. Angle:

- *Key Issues and Barriers to Maternity Anesthesia Care in Ontario*. Sunnybrook Health Services Sciences Symposium, Sunnybrook Health Sciences Center, Toronto, Canada. October 23, 2008
- *Emergency Airway and Cricothyroidotomy* Session. 2nd Annual Obstetric Anesthesia Day, Toronto Anesthesia Practice Meeting, Women's College Hospital, University of Toronto, Toronto, Ontario, Canada, November 28, 2008
- *The Case of the Parturient with the Labor Epidural from Hell*. 2nd Annual Obstetric Anesthesia Day, Toronto Anesthesia Practice Meeting, Women's College Hospital, University of Toronto, Toronto, Ontario, Canada, November 28, 2008
- *Opening the Windows on Maternity Anesthesia Care*. CAPP Canada Conference, Childbirth and Postpartum Professional Association, Scarborough Civic Center. Toronto, Ontario, Canada, November, 14, 2008
- *A Choice Between Stroke and Cardiac Arrest – Severe Bradycardia and Hypotension after Spinal Anesthesia in a Hypertensive Patient*. 3<sup>rd</sup> Annual Obstetric Anesthesia Day, Toronto Anesthesia Practice Meeting, Women's College Hospital, University of Toronto, Toronto, Ontario, Canada, November 28, 2008
- *Regional Anesthesia and the Tattooed Mama*. 4<sup>th</sup> Annual Obstetric Anesthesia Day, Toronto Anesthetic Practice Meeting, Women's College Hospital, University of Toronto, Toronto, Ontario, Canada November 27, 2009
- *Myths and Truths About Epidural Analgesia*. College of Family Physician's Meeting, Toronto Ontario Canada November 28, 2009

Dr. V. Chinnappa:

- Annual meeting of Ontario Dental Anesthesia Society  
Marriot Hotel, Toronto, October 2008  
Post operative Nausea & Vomiting after ambulatory surgery  
Update in Ambulatory anesthesia
- Anesthesia Assistant Certificate Program  
The Michener Institute for Applied Health Sciences', Toronto, Ontario, April 2008
  - Consideration in Ambulatory Anesthesia
  - Discharge criteria after ambulatory surgery
  - Obstructive sleep apnea

Dr. M. Davallou:

- Obstetric Anesthesia workshop, Women's College hospital,  
Neurological complications after regional Anesthesia, November 2008

Dr. S. Halpern:

- Author: Stephen Halpern  
Labour analgesia—Analgesia and labour outcome, an EBM approach. Euroanesthesia 2009 June 7, Milan Italy.
- Conversion of epidural analgesia for labor to anesthesia for cesarean section: practical considerations. 35<sup>th</sup> Annual Virginia Apgar Seminar. March 20, 2009. The Hilton Hotel at Disney world Village. Florida.
- The Morbidly Obese Parturient. . 35<sup>th</sup> Annual Virginia Apgar Seminar. March 20, 2009. The Hilton Hotel at Disney world Village. Florida.
- The Epidural Test Dose. 35<sup>th</sup> Annual Virginia Apgar Seminar. March 22, 2009. The Hilton Hotel at Disney world Village. Florida.
- Troublesome epidural? More trouble than you think! 3<sup>rd</sup> annual Obstetric Anesthesia Day. November 28, 2008. Women's College Hospital.
- Session Chair—Modern Labour Analgesia. 21<sup>st</sup> International Congress of the Israel Society of Anesthesiologists. Dan Panorama Hotel. Tel Aviv Israel. Sept 16, 2008

- Pro-Con Debate. The time has come to abandon the epidural test dose for labor. Pro. 21<sup>st</sup> International Congress of the Israel Society of Anesthesiologists. Dan Panorama Hotel. Tel Aviv Israel. Sept 16, 2008
- Workshop: Ultrasound for lumbar neuraxial blocks. 21<sup>st</sup> International Congress of the Israel Society of Anesthesiologists. Dan Panorama Hotel. Tel Aviv Israel. Sept 17, 2008.

Dr. A. McNaught:

- Invited to assist in workshops teaching ultrasound skills at the University of Toronto Regional Anesthesia and Pain Medicine Conference. September 2008
- Invited to lecture at the Holland Orthopedic and Arthritic centre annual symposium. The symposium was entitled 'Optimizing Functional Outcome Following Total Knee Replacement' and I chaired a problem based learning discussion on 'The Side effects/complications of regional anesthesia and how to avoid them.' October 2008

Dr. P. Morgan:

- Who to save: mother or babe? Obstetric Anesthesia Conference, Anesthetic Practice. Toronto, ON November 2008. Keynote lecture, Provincial audience.
- The World Health Organization and the Safe Surgery Saves Lives Campaign. Combined Rounds Anesthesia and Operating Room Nurses and Administration, Women's College Hospital. February 2009.
- Getting Blood from a Stone. Simulation Research Refined. Network for Excellence in Clinical Teaching and Learning. May 2009.
- Simulation: does it improve patient safety? McGill Anesthesia Update. May 2009.
- Moderator, Patient Safety Symposium, "Patient Safety: Yesterday, Today and Tomorrow". Canadian Anesthesiologists' Society Annual Meeting. Vancouver, BC, June 2009

**5. Visiting Professorships** in 2008-2009 – list name, department and institution, and the date(s) of the visit)

**6. Publications in 2008-2009**

**Peer-Reviewed Publications**

Dr. P. Angle:

- Halpern SH, Soliman A, Yee J, **Angle P**, Ioscovich A. Conversion of epidural labour analgesia to anaesthesia for caesarean section: A prospective study of the incidence and determinants of failure. **Collaborator**, *British Journal of Anaesthesia*, 102:240-243 (2009).

Dr. V. Chinnappa:

- Venkatraghavan L, **Chinnappa V**, Peng P, Brull R. Non-cardiac implantable electrical devices: brief review and implications for anesthesiologists. *Can J Anaesth*. 2009; 56(4): 320-6. 2009 Review.

Dr. S. Halpern:

- Balki M, Lee Y, **Halpern SH**, Carvalho JC. Ultrasound imaging of the lumbar spine in the transverse plane: correlation between estimated and actual depth to the epidural space in obese parturients. *Anesth Analg* 2009;108:1876-81.

- **Halpern SH**, Carvalho B. Patient-Controlled epidural analgesia in labor. *Anesth Analg* 2009;108: 921-928.
- **Halpern SH**, Soliman A, Yee J, Angle P, Ioscovich A. Conversion of epidural labour analgesia to anaesthesia for caesarean section: A prospective study of the incidence and determinants of failure. *BJA*:2009; 102: 240-243
- Ioscovich A, Gisslasson R, Fadev A, Grisaru-Granovsky S, **Halpern S**. Peripartum anesthetic management of patients with Takayasu's Arteritis: cases series and review. *IJOA* 2008;17:358-64.

Dr. P. Morgan:

- **Morgan PJ**, Pittini R, Regehr G. The use of simulation education in competency assessment: more questions than answers. Reply to Letter to the Editor from Edler AA. *Anesthesiology* 2008; 108: 168

#### **b) Non peer-reviewed publications:**

Dr. A. McNaught:

- McNaught A and McCartney C. Bupivacaine Chondrotoxicity. *British Journal of Anaesthesia*: 2009 Jul;103(1):133; author reply 133-4

#### **c) Books and Chapters in Books**

Dr. P. Angle:

- **Angle P**, Chinappa V, Banerjee A. Central Neuraxial Blockade. Principal Author. University of Toronto Medical Student Textbook currently in production. Editor. I. Devito. 2009
- **Angle P**, Kurtz Landy C, Murthy Y, Cino P. Key Issues and Barriers to Obstetrical Anesthesia Care in Ontario Community Hospitals with < 2000 Deliveries Annually. *Canadian Journal of Anesthesia* (2009) (*In Press*).

Dr. V. Chinnappa:

- **Chinnappa V**, Chung F. Book Title: Evidence Based Practice of Anesthesiology Chapter: What criteria should be used for discharge after outpatient surgery? Publisher: Saunders Elsevier, Philadelphia, 2009

Dr. S. Halpern:

- **Halpern SH**, Gislason R. Maternal Assessment. In *A Practical Approach to Obstetric Anesthesia*. Editors Bucklin B, Gambling DR, Wlody D. Lippincott, Williams Wilkins Publishers. 2009 pg 55-68.

#### **d) Abstracts**

Dr. S. Halpern:

- **Halpern SH**, Banerjee A, Stocche R, Glanc P. The use of ultrasound for lumbar spinous process identification. SOAP 2009: A15 (oral presentation).
- Stocche R, Banerjee A, **Halpern S**. Preload or co-load for spinal anesthesia for cesarean section. SOAP 2009;A121 (poster).

Dr. P. Morgan

- Cheung RT, **Morgan PJ**, Leblanc V, Haley M. Expert versus non-expert raters in simulation performance evaluation. Canadian Anesthesiologists' Society Annual Meeting, Halifax, NS. June 2008
- Ford MK, **Morgan PJ**, Regehr G, Haley MF, DeSousa S. Predictors of Performance in Advanced Cardiac Life Support (ACLS) Simulations. Canadian Anesthesiologists' Society Annual Meeting, Halifax, NS. June 2008

#### e) Peer and non-peer reviewed Grants

##### Dr. P. Angle:

- **Angle P**†, Halpern SH§, Kronberg J§, Gawel M §, Kiss A. ‡, RA Gordon Patient Safety Award, Canadian Anesthesiologists' Society, \$40,000CN, 2007-2008. Principal Investigator  
† Project Title: Multi-centered Randomized Controlled Trial Examining the Effect of Small vs Large Tuohy-type Epidural Needles on the Incidence and Severity of Post dural Puncture Headache. Principal Author† Collaborator§ CoPrincipal Author‡,90% role in project.
- **Angle P**. Canadian Pain Society, \$1250CN. Principal Applicant.  
Project: Development of a Teaching Video – Techniques used for successful placement of small epidural catheters and needles. 2) PDPH Bulletin: Development of the Research Methods Component. 2008-2009.

##### Dr. S. Halpern:

- Can Ultrasound of the Spine Improve the Reliability and Safety of Lumbar Puncture?  
Principal Investigator: **Dr. SH Halpern** Co-investigator: Dr. P. Glanc Granting Agency: Ontario Ministry of Health, Alternate Funding Plan Innovation. Amount: \$15,000. Dates: April 1 2009—March 31, 2010

##### Dr. A. McNaught:

- PSI grant awarded to support the up-down sequential dosing trial, in which I am the second author, performing the majority of the interventions and a large part of the administrative work. Amount: \$19,000. Date: Dec 2008.

##### Dr. P. Morgan:

#### PEER-REVIEWED

‡Principal Investigator, †Co-Principal Investigator, ‡Co-Investigators, \*Collaborator

- **Leslie K**‡, Reeves S‡, LeBlanc V‡, Lingard L‡, Morgan P‡, Naik V‡, Ballon B‡, Satterthwaite L‡, Robb A‡, Silver I‡, Pittini R‡, Cop S‡, Bandali K‡, Dubrowksi A‡.  
Network of Excellence in Simulation for Clinical Teaching and Learning, \$83,990. July 2008  
Project Title: Faculty Development for Simulation for Clinical Teaching and Learning
- **Morgan PJ**‡, Tregunno D‡, Pittini R‡, Regehr G‡, Milne K‡, Zwarenstein M‡, Tarshis J‡.  
Canadian Patient Safety Institute (CPSI), \$119,340.00  
March 2007-September 2009  
Project Title: Determination of the Psychometric Properties of a Behavioural Marking System for Obstetrical Team Training Using High-Fidelity Simulation
- **Morgan PJ**‡, Kronberg J‡, Semple J‡.  
Alternate Funding Plan Innovation Fund, \$30,000.00  
May 2009  
Project Title: Patient Safety: Introduction of the Surgical Safety Checklist and Patient Outcome Assessment in an Academic Ambulatory Hospital

NON PEER REVIEWED (Dr. P. Morgan con't.)

- **LeBlanc VR**, Naik V, Kurrek M, Ballon B, Chow R, DeSousa S, Dubrowski A, King K, Leslie K, McNaughton N, Morgan PJ, Parker K, Tarshis J. Service contract with the Canadian Patient Safety Institute to develop national curriculum for simulation program managers and technicians. \$15,000  
March 2009  
Project Title: Train-the Trainer” Curricula: Program Managers & Simulation Technicians.

## 7. Graduate Students Supervised/Committee membership

### Dr. P. Angle:

- CME committee member, UofT, Department of Anesthesia
- Secretary, Obstetrical Anesthesia Section, Canadian Anesthesiologists’ Society, 2008 to present
- Department of Anesthesia Rounds Committee, Women’s College Hospital, UofT, 2008 to present
- Coordinator and/or Co-Coordinator, Toronto Anesthetic Practice Meeting, Continuing Education Committee, UofT
- Founder and Coordinator: Annual Obstetric Anesthesia Meeting/Workshop Day, Toronto Anesthetic Practice Meeting, Continuing Medical Education Committee, Department of Anesthesia, UofT, 2006 to present
- Supervisor for fellow: Dr. Arnab Banerjee.

### Dr. D. Djordjevic:

- Under Graduate Education Committee, UofT, Department of Anesthesia.

### Dr. S.Halpern:

- Clinical and Research supervisor:
- Arnab Banerjee MD—Fellow in Obstetrical Anesthesia
- Renato Stocchee MD—Fellow in Obstetrical Anesthesia

### Dr. J Kronberg:

- Department Council, UofT, Department of Anesthesia

### Dr. P. Morgan:

- Committee Membership:  
Chair, Patient Safety Committee, Canadian Anesthesiologists’ Society  
Chair, Obstetrics Section Committee, Canadian Anesthesiologists’ Society

### Other:

The establishment of the Evelyn Bateman Professorship in Ambulatory Anesthesia and Women’s Health, in conjunction with the University of Toronto, Department of Anesthesia. (Evelyn Bateman Professorship in Obstetrical Anesthesia renamed)