DEPARTMENT OF ANESTHESIA & PERIOPERATIVE MEDICINE

University of Western Ontario Teaching Hospitals

London Health Sciences Centre
St. Joseph’s Health Care London

ANNUAL REPORT
2001 – 2002

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Vision and Mission Statement

The Vision and Mission of the Department of Anesthesia & Perioperative Medicine, London Health Sciences Centre and St. Joseph’s Health Care London, University of Western Ontario is to be an internationally acclaimed academic department in anesthesia, pain and critical care. Also, to provide exemplary patient care and foster excellence in anesthesia delivery, research and education at the undergraduate, postgraduate and continuing medical education at the regional, national and international levels.

Chair/Chief Report

Davy Cheng, MD, MSc, FRCPC

The year of 2001-2002 has been a year of remarkable and exciting changes in the Department of Anesthesia & Perioperative Medicine, University of Western Ontario. I was appointed in September 2001 as the Chair/Chief of the Department of Anesthesia & Perioperative Medicine, London Health Sciences Centre (LHSC) / St. Joseph’s Health Care (SJHC) London, University of Western Ontario.

The Department was first established in 1949, with John A. Blezard as the first Chair (1949-58), succeeded by Wolfgang E. Spoerel (1958-83), W. Arnold Tweed (1983-89), and Adrian W. Gelb (1990-2001). The challenges facing the Department are the critical shortage of anesthesiologists, as in most academic health sciences centers nationally, compounded by the transitional phases of the restructuring and reengineering at the LHSC/SJHC.

The Department of Anesthesia & Perioperative Medicine is comprised of clinicians, researchers, and teachers providing secondary, tertiary,
and quaternary anesthesia and perioperative care. We serve the city of London with a population of 330,000 and a drawing area of 2 million people from Southwestern and Northern Ontario. The Department provides clinical support to 36-40 operating rooms/day at both LHSC (University Campus and Victoria Campus), and SJHC London. We also provide the spectrum of medical care from conducting preoperative anesthesia assessment to performing the most advanced life-supporting techniques in all perioperative settings such as ambulatory surgery, subspecialty surgery, obstetric, pediatric care, out-of-OR interventional procedures, acute and chronic pain management, blood conservation management, post-anesthetic care unit and intensive care units. The Department provides teaching and training to undergraduate and postgraduate trainees in anesthesia and allied health care fields both at UWO and the Out-Reach Community Program. The Department is well known for its clinical and research excellence in cardiac anesthesia, neuroanesthesia, transplantation, critical care, and pain medicine.

In the past one-year, we have advanced forward and accomplished considerably with support from our faculty, institutional administration and the Dean of the Faculty of Medicine and Dentistry. I would like to highlight below our achievement and changes from the past year.

- The Department has officially changed the name to Department of Anesthesia & Perioperative Medicine effective January 1st 2002, in the Faculty of Medicine & Dentistry at the University of Western Ontario and its affiliated teaching institutions (LHSC/SJHC) to reflect the spectrum of our anesthesia and perioperative care.

- A Citywide Department has been re-organized with academic priority programs (cardiac anesthesia, neuroanesthesia, pain, critical care, transplantation, obstetric, thoracic/vascular, pediatric, perioperative blood conservation). I appreciate greatly the contribution of Dr. J Parkin (SJHC), Dr. G Block (LHSC-VC), and Dr. I Herrick (LHSC-UC) for their term as Site Chiefs of the Department. I welcome the citywide commitment and devotion of Dr. J Watson (SJHC), Dr. M Lampe (LHSC-VC), and Dr. W Dobkowski (LHSC-UC) who are the current Site Chiefs of the Department.

- An endowed UWO Earl Russell Chair in Pain Management was established in conjunction with SJHC. Dr. Earl Russell who is an
anesthesiologist practicing in pain management in London has generously endowed this important Chair to advance the academic and clinical management of chronic pain in a multi-disciplinary approach. Dr. P Morley-Foster from our Department is selected and inaugurated as the first UWO Earl Russell Chair in Pain Management.

- Dr. John Fuller, who was the 2001 recipient of the Professional Association of Residents and Interns of Ontario (PAIRO) Resident Advocate Award, has led our PGE program as one of the best anesthesia training programs in the country. Dr. Sal Spadafora has succeeded him as the current PGE Program Director. The Department also commits to SWOMEN, the South Western Ontario Medical Education Network, (Dr. John Fuller) and APIMG, Assessment Program for International Medical Graduate, (Dr. Richard Cherry). Dr. Richard Lee was co-winner of the 2002 PAIRO Excellence in Clinical Teaching Award. Dr. Rooney Gverzdys is promoted to Associate Professor in the Department and has completed his term as UWO anesthesia examiner for the RCPSC. Dr. David Smith has been appointed as our Departmental examiner for the RCPSC. The fellowship program continues to grow under the Directorship of Dr. Rosemary Craen. Dr. Philip Jones (PGY3) was awarded the CAS/Vitaaid/LMA Resident Research Award under the supervision of Dr. Rosemary Craen.

- New recruitment strategy initiated by the Department includes retention and recruitment of recent UWO and Canadian graduates: Dr. T. Rabgey, Dr. J. Hoogstra, Dr. J. McNamara Dr. P. Armstrong; initiation of residency re-entry program: Dr. W. Athktar; and recruitment in the academic IMG program: Dr. M. Mosa and Dr. I. Iglesias.

- Other new programs established and being developed are: perioperative TEE cardiac anesthesia program (Dr. Daniel Bainbridge), perioperative blood conservation program (Dr. Fiona Ralley), cardiac surgery recovery unit (Dr. Davy Cheng), anesthesia assistant program (Dr. Fiona Ralley, Dr. Jim Watson).

- The Department has consolidated physical space at all sites. The Department has successfully secured HOCC funding to all appropriate on-call sites from the MOHLTC. We are actively
participating in the academic health sciences centers AFP negotiation with MOHLTC.

- The Department continues to contribute in key administrative roles at the LHSC/SJHC. Dr. Bill Sischek has completed his term as the LHSC MAC Chair and is appointed to the LHSC Executive Leadership Team. Dr. Ian Herrick is appointed as the Chair of LHSC MAC. Dr. John Fuller is selected as the Medical Director-Perioperative Care, SJHC. The Department is actively engaged in the citywide restructuring and clinical programs transfer for milestone 1 and 2 between LHSC/SJHC.
ORGANIZATIONAL CHART

CHAIR/CHIEF
Davy Cheng

SITE CHIEF – UC
Wojciech Dobkowski

CARDIAC ANESTHESIA PROGRAM
John Murkin (Director)
Daniel Bainbridge (TEE)

ACUTE PAIN PROGRAM
Jim Watson (Director)
Richard Tilsworth (VC)

REGIONAL ANESTHESIA PROGRAM
Kevin Armstrong (Director)
Richard Tilsworth (VC)

SITE CHIEF – VC
Mary Lampe

CRITICAL CARE PROGRAM
Ron Butler – (ICU-UC)
Davy Cheng – (CSRU)
John Fuller - (SJHC)

PAEDIATRIC ANESTHESIA PROGRAM
Neil Gordon (Director)

CHRONIC PAIN PROGRAM
Patricia Morley-Forster (Earl Russell Chair)

SITE CHIEF – SJHC
Jim Watson

FELLOWSHIP PROGRAM
Rosemary Craen (Director)

PERIOPERATIVE BLOOD CONSERVATION PROGRAM
Fiona Ralley (Director)

OBSTETRICS PROGRAM
Sandra Katsiris (Director)

POSTGRADUATE EDUCATION PROGRAM
Sal Spadafora (Director)
APIMG - Richard Cherry
Rural/Regional - John Fuller
Marc St-Amant - UC
Sandra Katsiris - SJHC
Lynn Coveney - VC

UNDERGRADUATE EDUCATION PROGRAM
Marc St-Amant (Director)
Richard Cherry - SJHC
Tenzin Rabgye - VC

LIVER TRANSPLANTATION PROGRAM
Wojciech Dobkowski (Director)

PREADMISSION CLINIC
Neal Badner (UC)
R. Tilsworth (VC)
J. Parkin (SJHC)

ANESTHESIA ASSISTANT PROGRAM
Fiona Ralley (Director)

NEUROANESTHESIA PROGRAM
Rosemary Craen (Director)

THORACIC/VASCULAR ANESTHESIA PROGRAM
George Nicolaou (Director)

MEDICAL INFORMATICS
Steve Dain (Director)
Richard Cherry (SJHC)
David Smith (VC)
### Faculty Members 2001-2002

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<td>Asst. Prof.</td>
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<td>Bainbridge, Daniel</td>
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<td>Butler, Ron</td>
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<td>Champion, Lois</td>
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<td>Cheng, Davy</td>
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<td>Herrick, Ian</td>
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<td>Kutt, Judith</td>
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<td>Mezon, Bernie</td>
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<td>Murkin, John</td>
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<td>Smith, Heather</td>
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<td>St-Amand, Marc</td>
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<td>Stockall, Carol</td>
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<td>Vannelli, Tony</td>
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<td>Block, Gary</td>
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<td>Coveney, Lynn</td>
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<tr>
<td>Gordon, Neil</td>
<td>Lecturer</td>
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<td>Herd, Stu</td>
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<td>Kierszawicz, Halina</td>
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<td>Lampe, K. Mary</td>
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<td>Lee, Richard</td>
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<td>Lindsay, Peter</td>
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<td>Lobb, Trevor</td>
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<td>McCabe, Greg</td>
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<td>Newton, Peter</td>
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<td>Nicolaou, George</td>
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<td>Simon, Gary</td>
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<td>Sischek, Bill</td>
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<td>Small, Violet</td>
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<td>Thorn Harrie</td>
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<td>Morley-Forster, Pat</td>
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<td>Parkin, John</td>
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### Adjunct Professors

**St. Thomas-Elgin General Hospital**

Bidinot, Hugo  
Chopra, Ashna  
Donald, Shirley  
McNeill, Brian  
Soderman, Mark

### Professor Emeritus

Bain, J.A.  
Hersey, L.W.  
Muir, J.M.  
Nielsen, J.S.  
Russell, E.S.  
Sellery, G.R.  
Varkey, G.P.  
Webster, A.C.
**CLINICAL FELLOWS 2001/02**

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<th>Dr. Dean Banno</th>
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<td>Dr. Asha Gopinathan</td>
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<td>Dr. Jason Hoogstra</td>
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<td>Dr. Ivan Iglesias</td>
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**RESIDENTS 2001/02**

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<td>Hadi, Ibrahim</td>
<td>Dicecco, Rom Jones, Philip Lee, Stephen Turkstra, Tim</td>
<td>Al-Shamali, Khalil Ho, Wayne</td>
<td>Abotaiban, Ahmad Dugas, Geoff Ewing, Kevin Gros, Michelle Hussein, El Hadi Roos, Martin</td>
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The University Campus site is a very active academic centre. During the last year many of our colleagues participated in national and international meetings, visiting professor lectureships and co-operated with other academic centres in a variety of research projects.

The clinical service includes eleven operating rooms (cardiac surgery, neurosurgery, general surgery, orthopedics, sports medicine, plastic surgery, urology); diagnostic and therapeutic procedures in electrophysiology laboratory, neuroradiology and cardiac angiography; preadmission clinic; acute pain service; 24-hour call coverage and liver transplantation.

The key academic programs are:

**Cardiac Anesthesia** (Dr. John Murkin).
This group is very well recognized internationally and has outstanding achievements in research and education.

**Trans-Esophageal Echocardiography** (Dr. Daniel Bainbridge)
Dr. Bainbridge has organized a TEE course (CME) for the cardiac anesthesiologists. This will improve the standard of perioperative care and create the opportunity for all participants to obtain certification in TEE.

**Neuroanesthesia** (Dr. Rosemary Craen)
This is a well-recognized group internationally, which includes Dr. Adrian Gelb. Historically, this was the first academic group in our department. The research program includes basic science and clinical projects.
Liver Transplantation (Dr. Wojciech Dobkowski)
This group provides 24-hour coverage for liver transplantation procedures. It has also been involved in international research projects (multicenter studies).

Acute Pain Service (Dr. Neal Badner)
All consultants participate in Acute Pain Service. The clinical value of this service is well recognized by the surgeons and their patients. Pain management education is provided for residents and fellows.

Medical Informatics (Dr. Steven Dain)
This unique program was established at our site three years ago.

Undergraduate Education (Dr. Marc St-Amand)
Based on the opinions of medical students expressed in letters to the Dean, the high level of our undergraduate teaching is very well recognized. It continues to have increasing demand for anesthesia electives from medical students both from UWO and other universities.

Postgraduate Education (Dr. Marc St-Amand)
Subspecialty rotations (cardiac, neuroanesthesia, ambulatory anesthesia) have been modified and in residents’ opinions have met educational objectives.

Fellowship Program (Dr. Rosemary Craen)
During the last year we have had six fellows in the following subspecialties: cardiac anesthesia, neuroanesthesia, regional anesthesia, and transplantation anesthesia.
The anesthesiologists at VC continue to provide a wide range of anesthetic services at both Westminster and South Street sites on a 24/7 basis at both sites. South Street Operating Room continues to be the Trauma, Vascular and Thoracic centre for the city and Westminster Campus Operating Rooms are home to pediatric care, oncologic surgery and Level Two Obstetrics.

In addition, there are preadmission assessment clinics daily, daily acute pain rounds, chronic pain management clinics four days a week, Cancer Clinic services provided.

In March 2002, with the opening of the Westminster Campus MRI scanner, the anesthesia-supported MRI and CT sedation day began at VC with approximately 15 cases each Thursday.

EDUCATIONAL FOCUS
Anesthesia residency education has been further developed at VC with plans to finely tune Pediatric, Trauma, Perioperative Care and Thoracic/Vascular rotation objectives and evaluations.

Operating Room and clinic teaching for medical students is also a focus.
St. Joseph's Health Care is a major teaching facility within the University of Western Ontario, Department of Anesthesiology and Perioperative Medicine. St. Joseph's acts as the tertiary care obstetrical centre and performs about 4,800 deliveries per year. The surgical focus is on the Hand and Upper Limb Centre, Endo-urology, Ophthalmology, Head & Neck reconstruction as well as General Surgery, Gynecology, Plastic Surgery and care of dental patients. Approximately 20,000 surgical cases are performed each year.

After ten years in his role as Site Chief of the Department of Anesthesia, Dr. John Parkin has passed the mantel to Dr. Jim Watson. In addition, we have added two new members, Dr. Pod Armstrong and Dr. Jason Hoogstra. In the past year also, Dr. Pat Morley-Forster has assumed the role of Chair of the Earl Russell Multi-disciplinary Pain Centre. Dr. John Fuller, after ten years as Director of our Postgraduate Training Program has assumed the role of Medical Director of Perioperative Care.

Planning is well advanced for the design and construction of a new 10 operating room, ambulatory surgi-centre and radiologic and diagnostic facility. Planned completion date is 2004. This new facility will provide St. Joseph's Health Care with a modern, well-equipped facility to carry the institution into the next century. St. Joseph's Health Centre provides Fellowships in Obstetrical Anesthesia and Regional Anesthesia. The volumes of high-risk obstetrical patients and hand and upper limb patients provide a very fertile learning and research ground in these areas of subspecialty care. The new ambulatory surgi-centre is a major portion of the restructuring effort and will provide a firm foundation for future study and care of ambulatory patients.
Continuing Medical Education Program

Dr. Sandra Katsiris (Director)

The Continuing Medical Education Program was again successful over the past year. In total, there were eleven Grand Rounds presentations from July 2001 through June 2002. Five presentations were given by individuals affiliated with The University of Western Ontario, and the remaining six were given by guests participating in the Visiting Professorship Program. These included:

- Dr. D. Bainbridge from The University of Saskatchewan
- Dr. P. Raj from Texas Tech Medical Center
- Dr. F. Chung from The University of Toronto
- Dr. P. Sebel from Emory University in Atlanta
- Dr. S. Liu from Virginia Mason Medical Center in Seattle
- Mr. R. Paradis from The University Health Network in Toronto

All sessions were suitable for accreditation by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Fellowship Program

Dr. Rosemary Craen (Director)

Fellowships in cardiac, neurosurgical, transplantation, regional, obstetrics, pain management, vascular & thoracic anesthesia and anesthesia informatics are offered each year at the London Health Sciences Center and St Joseph’s Health Care London. Generally fellowships are 12 months in duration but can be 6 months to 2 years. Programs are individualized to meet the goals of successful applicants. Generally, clinical experience is the focus along with involvement in clinical research. Fellows spend approximately 3.5 days per week in clinical activities with 1.5 days per week protected for non-clinical activities, and participate in night call schedule (from home). Fellows are also encouraged to be actively involved in resident, medical student and nursing education, give didactic lectures and participate in anesthesia rounds and specialty conferences. Applications are usually considered 12-18 months prior to start date.
The Anesthesia Residency Program continues its long tradition of full accreditation approval from the Royal College of Physicians and Surgeons of Canada. The residency has worked to optimize the contribution made by each of the involved hospital sites. In anticipation of the service moves associated with the on-going restructuring, a significant portion of the residency consists of sub-specialty anesthesia rotations. As services move across the city with restructuring, the sub-specialty rotations will simply follow the clinical service. This should maintain continuity of the residency program throughout the restructuring process.

The residency constantly strives to improve in all aspects. A regular evaluation of all aspects occurs. This includes evaluation of the individuals, both residents and faculty; rounds; teaching sessions; and the clinical rotations. The Family Medicine/Anesthesia Residency continues to train much needed anesthesia providers for small communities. The residency continues to offer training to FRCPC and Family Medicine/Emergency trainees.

The Postgraduate Education Program achieved several notable successes in the past year. Dr. Richard Lee won the PAIRO Resident Teaching Award for UWO. Dr. Phillip Jones, PGY3, was awarded the CAS/Vitaid/LMA Resident Research Award. Dr. Martin Roos presented a paper at the Midwest Anesthesia Residents Conference. Applications were received from numerous gulf state trainees and two were selected to join the residency program as PGY1's. Physicians from across Canada and abroad participated in our various subspecialty fellowships.

The Postgraduate Education Program participated in several new provincial and national endeavours this year:

**Making a Mark Program:**
Four of our faculty contributed to the first annual “Making a Mark” program, a review and exam preparation course for all Canadian final year residents.
**APIMG:**
The Ontario Assessment Program for International Medical Graduates was initiated this year. The program is coordinated by Dr. Richard Cherry and it involves a six-month assessment of specialist physicians from foreign jurisdictions towards licensed eligibility in Ontario. We participated in the development of a screening and selection process and participated in selecting the first anesthesia entrants to the program. As well, we have accepted to assess two physicians, with the first assessment currently well underway. During anesthesia rotations, the primary method of evaluation included daily evaluation forms completed by consultants with whom the ISP was assigned. This daily form mirrored the new CanMeds 2000 FITRE as outlined by the RCPSC. ICU rotation evaluation was carried out using the standard procedures utilized at each specific site.

**SWOMEN:**
The Government of Ontario initiated a program of community-based training of medical specialists in an attempt to address the physician shortages in the province. UWO and the Anesthesia Residency Program were successfully selected to participate. Through this program the residency receives four additional CaRMS entry positions annually, with the first trainees entering through the 2002 CaRMS match. The residency program is actively proceeding with development of our community based training program. Dr. John Fuller is appointed as our departmental SWOMEN. Several community anesthesiologist coordinators have been identified.

**Community Anesthesia Residency Program**
Several community-based hospital centres have been recruited to participate. Numerous residents are scheduled for community rotations in the 2002-03 academic year. Data is being collected towards developing community rotations to synchronize with our London-based training. The practicalities and principles of the program are in development.
Undergraduate Education Program

Dr. Marc St-Amand (Director)

The Undergraduate Anesthesia Program and its rotation continues to be a popular one for the medical students to select. All hospital sites are involved. The program consists of a two-week rotation with hands on experience and clinical teaching. The students are provided with a text which is given to them on loan for the duration of the elective. A workbook is also provided for them to direct their reading and intraoperative teaching. Four morning sessions are also given during their surgical rotation. The topics have been standardized across the city and efforts are being made to further standardize the rotation from site to site. At the conclusion of the rotation they hand in a case report and receive an exit oral exam. Their final evaluation is a summary of their performance in the operating room as well as their case report and oral exam.

Cardiac Anesthesia Program

Dr. John Murkin (Director)

In addition to the ongoing high level of clinical care delivered by members of the cardiac anesthesiology group, this year has seen the acquisition and incorporation of 2 dedicated TEE machines for the cardiac ORs at University and Victoria sites. A major initiative was undertaken in order to upgrade the skills of cardiac anesthesiology consultants to familiarize them with TEE and incorporate TEE examination into routine clinical care. To this end an inaugural series of introductory TEE lectures were organized by Dr. Dan Bainbridge and were archived on the Departmental website by Dr. Steven Dain and Peter Lok. One of the first indications of the success of this program was the successful completion of the ASE perioperative TEE examination the cardiac anesthesiology TEE Fellow, Dr. Dean Banno. ASE certification of two additional consultants and the establishment of a formal cardiac anesthesiology perioperative TEE service is an identified goal for the coming year.
In addition to undertaking several research projects examining the role of intraoperative cerebral oximetry in cardiac surgical patient outcomes, the CIHR-funded study of central nervous system outcomes after conventional cardiopulmonary bypass versus beating heart techniques for coronary revascularization was ongoing. Additionally, the University campus site was selected as part of the multicenter, CIHR-funded study of antifibrinolytics and blood product utilization in high-risk cardiac surgical patients. Initial discussions at expanding this study to include the Victoria campus site are ongoing.

Members of the cardiac anesthesiology group have been well represented in several national and international multidisciplinary meetings focusing on the perioperative management of cardiac surgical patients. The seventh annual "Outcomes' meeting was held in May in Key West, Florida, Proceedings of which were published in September 2002 issue of Heart Surgery Forum, while the third annual Cardiac Team meeting was held in September in Montebello, Quebec, both meetings being co-organized and chaired by Dr. John Murkin.

With the recent recruitment of Dr. Davy Cheng into the UWO cardiac anesthesiology group, after his successful development of the perioperative cardiac surgical recovery unit for the Toronto Health Network, discussions are underway to initiate a similar program here, offering the potential for greater involvement of cardiac anesthesiology into the postoperative care of these patients.

Cardiac Surgery Recovery Unit

Dr Davy Cheng (Director)

With the consolidation of the cardiac surgical services from LHSC-Victoria Campus to the LHSC-University Campus during milestone 1 in the restructuring process at LHSC/SJHC, the cardiac surgery program, chaired by Dr. Richard Novick, will have an annual surgical caseload of about 1,700 patients (including the robotic cardiac surgery). A new paradigm of a cardiac surgery recovery unit (CSRU, 16 beds) is being developed and directed by Dr. D. Cheng with the associate directors, Dr. Michael Sharpe and Dr. Richard Novick. This model of parallel care with the main intensive care unit will be staffed by cardiac anesthesia, cardiac surgery and critical care. A fast track cardiac surgery recovery
pathway with the support by the nursing team headed by Ms. Lynda Robinson will be implemented to facilitate the flow and recovery of all cardiac surgical patients at LHSC. This CSRU will link the intraoperative cardiac anesthesia management and postoperative surgical ward recovery to provide the full spectrum of cardiac surgical patient care, including the education and research in these patients.

**Critical Care Program**

Dr. Ron Butler, ICU-UC

The Critical Care Program at the University of Western Ontario is a multidisciplinary program that provides postgraduate training in Critical Care Medicine. Trainees gain experience working and caring for all types of critically ill patients in the Richard Ivey Critical Care Trauma Center (30 beds) and the W. E. Spoerel Intensive Care Unit (26 beds), including, trauma, neurosurgical, transplant, and cardiac critically ill patients. The program has a well-developed educational program for trainees that has been recognized for its excellence by the Royal College of Physicians and Surgeons. Faculty within critical care are also involved in basic science and clinical research. The program in critical care is currently undergoing expansion as we consolidate the care of all critically ill patients onto two sites. New critical care units are being constructed with planned opening in early 2004. Anesthesia intensivists are an integral component of the program in Critical Care. As we expand we anticipate opportunities for new faculty to join our growing program.

**Critical Care Program**

Dr. J. Fuller, ICU-SJHC

The SJHC ICU is a 12-bed Medical/Surgical unit with a special interest in Obstetric Critical Care. The Medical Director is an Anesthesiologist, and the other 3 consultants are 1 Emergency Med/Intensivist and 2 Internist/Intensivists. The unit has been innovative in leading the country in the training of Nurse Practitioners, and including them in our clinical practice. The unit has also been a leader in Shared Leadership. Educational opportunities are offered for Medical Students and Postgraduate Residents, Nurse Practitioners, Nursing Students, RT
Students, Paramedics, and other allied health trainees. Research is an ongoing focus, with participation in local and multicenter studies.

Liver Transplantation Program

Dr. Wojciech Dobkowsk (Director)

“We have recently reviewed advances contributing to the improved survival of patients undergoing hepatic surgery and transplantation. Among these is the development of a liver surgery team as an outgrowth of rapid expansion of liver transplantation offering combined expertise in hepatology, liver surgery and anesthesia. It is possible to perform hepatic surgery and transplantation rapidly and safely and to minimize operative mortality. This result may be considered in the context of global evolution in techniques of anesthesia and hepatic surgery”


This Department has maintained a liver transplantation anesthesia group for almost twenty-eight years. It consists of three anesthesiologists who provide anesthesia services throughout the entire year. Over the past year sixty-five cadaveric transplants have been performed as well as six living-related transplant procedures. Among cadaveric transplants, seven were combined liver-kidney and one was heart-liver. The anesthesiologists in our group are members of a multispeciality team in pre-transplant assessment, qualification, and preparation for transplantation surgery.

A Fellowship program has been offered to Canadian and international anesthesiologists for the past twenty-two years. In addition, we offer a Visiting Physician program and have had visiting anesthesiologists from China as observers.

Our liver transplantation program is well recognized and has established international prestige. Dr. Dobkowski was a member of an international group of experts from England and Canada who cooperated with the Government and University of Kuwait in helping them develop a liver transplant program. Over the past two years Dr. Dobkowski and Dr. Sharpe visited the University of Beijing and the Transplantation Society of China giving a series of lectures together
with practical and clinical consultation to help develop a liver transplantation program in China.

We have been involved in various research projects including a multicenter study in Australia, Europe and Canada assessing the benefit and risk of Factor VII as antifibrynolytic agents in liver transplantation surgery. Ongoing research progress includes 1) the benefit of piggy-back techniques in liver transplantation in adults; 2) the effects of low doses of Factor VII combined with low dose Aprotinin on blood loss and blood products usage during liver transplantation; and 3) mega-dose of Aprotinin in fulminant hepatitis patients undergoing liver transplantation.

With the development of liver transplantation in the areas of living-related and combined transplantation, the educational goal of our group is to attract anesthesia residents into this existing academic program.

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**Neuroanesthesia Program**

*Dr. Rosemary Craen (Director)*

The aim of the Neuroanesthesia Program is to provide advanced training to those individuals who either plan to enter academic anesthesiology with an emphasis in neurosurgical anesthesia or those who wish to practice in a setting that has a large number of neurosurgical procedures. Fellows gain knowledge not just through case experience, but also through an organized teaching program. The fellowship is designed to gain expertise in the following areas:

**CLINICAL NEUROANESTHESIA:**

Cerebrovascular surgery and Endovascular Treatment: we are an international referral centre for the management of patients with cerebral aneurysms and arteriovenous malformations.

Surgery for Intractable Epilepsy: While we have been doing this type of surgery for more than two decades, it is only recently that neurologists and neurosurgeons worldwide have come to realize the therapeutic potential of such surgery and this has resulted in epilepsy surgery becoming one of the “fastest growth areas” in neurosurgery. We are one of Canada’s two major national referral centres. The majority of
these patients are done awake, but sedated so that their speech and motor areas of the brain can be mapped prior to surgical excision.

**Stereotactic Surgery:** This is used for diagnostic biopsies, management of chronic pain and movement disorders, and the management of intractable epilepsy. Each of these requires different anesthetic approaches.

In addition to the above “special” areas, Fellows will be exposed to a wide variety of the more usual neurosurgical procedures including endoscopic neurosurgery, craniotomies for tumours and hemifascial spasm, carotid endarterectomy, spinal instrumentation etc.

**MONITORING/DIAGNOSTIC SKILLS**
Fellows will have the opportunity to learn how to use Transcranial Doppler, Evoked Potential and EEG monitoring during surgery.

**NON-ANESTHESIA EXPERIENCE:**
Fellows will spend a brief period on the Epilepsy Service to have a better understanding of the total management of patients with epilepsy and to learn (much) more about the reading, use and potential of EEG monitoring.

As well, a similar brief period will be offered in the Neuroradiology Department to learn more about the indications and uses of diagnostic and interventional neuroradiology and to become much more facile with the interpretation of CT scans, MRI, etc.

**RESEARCH/ACADEMIC ACTIVITIES:**
The Department offers a variety of research opportunities that span the range from cell culture studies, in vitro vasculature, whole animal (brain blood flow, blood volume and ICP, experimental ischemia) and human (cerebral blood flow, evoked potentials, EEG, ICP, patient controlled sedation, and clinical outcome studies).

It is our expectation that each Fellow will complete at least one research project taking it from conception through to completion. In addition, they are expected to write at least one review article/book chapter. Further participation in research and writing activities is always welcome and encouraged.
Under supervision Fellows will also review manuscripts submitted to a variety of anesthesia journals, abstracts submitted to anesthesia scientific meetings and grant applications. These activities together with the research activities outlined above will provide fellows with an excellent insiders view of the entire research process.

For fellows interested in medical education, we encourage them to take the 2-day or the 5-day course in “Teaching At The University Level” offered by our University. For those who anticipate that teaching will be a major component of their career, we advise our 30-week teaching course for medical educators.

**Acute Pain Program**

*Dr. Jim Watson (Director)*

The acute Pain Service at St. Joseph's Health Care has been well established for 15 years. We continue to provide care to 35-40 new patients each week and provide a variety of modalities, including PCA, epidural and continuous regional techniques. The citywide Acute Pain Task Force has standardized procedures and techniques across the city and produced self-directed teaching packages for nursing staff at all sites, which has served to standardize management of acute pain patients. At St. Joseph's Health Centre our nurse practitioner/clinical nurse specialist, Kim Horrill has also helped to coordinate the education of staff and care of patients on the APS.

Most recently, Dr. Kevin Armstrong and Ms. Horrill have established an ambulatory continuous regional anesthesia program. This allows placement of continuous regional anesthesia catheters in patients prior to discharge and allows for care of these patients at home postoperatively.

Dr. Kevin Armstrong and Dr. Jim Watson have taken part in satellite broadcasts of live demonstrations of regional blocks. The most recent was from London, Ontario to Victoria, BC during the most recent Canadian Anesthesia Society Meeting. Blocks were performed on four patients in real time and broadcast live in interactive sessions with participants in Victoria. The Acute Pain Service at St. Joseph's Hospital
has also taken part in national initiatives to improve and standardize care of patient and education of practitioners in the field of acute pain.

**Perioperative Blood Conservation Program**

*Dr. Fiona Ralley (Director)*

This program was championed by Dr. D. Cheng after a meeting of interested personnel in April 2002, including anesthesiologists, surgeons, nurses, pharmacists, perfusionists, preadmission, perioperative care and blood transfusion services. A committee to institute a blood conservation program at LHSC was convened and the members are listed below. The duties of this committee include 1) the ensuring of optimized utilization of blood and blood products through assessment of current patient care maps and identification of pathways for the application of appropriate blood conservation strategies 2) the provision of staff and patient education to facilitate patient’s informed decision-making regarding blood transfusion and alternatives 3) the monitoring and tracking of patient outcomes for the purpose of benchmarking and standard setting. The first task of this committee has been to coordinate and run the MOH ONTraC program and to assist in the data collection for the second stage of PROBE. This has resulted in the hiring of a Transfusion Nurse Coordinator (Donna Berta) who will be funded by the MOH for 2 years.

This committee meets bi-monthly and discusses the ongoing projects as mentioned above. Initially the main area of blood conservation has involved orthopedic and vascular patients, but next year this will be expanded to include cardiac, major spine surgeries and hepatic resections.

Committee Members:
Dr Fiona E. Ralley (Chair)(Anesthesia and Perioperative Medicine)
Donna Berta (Transfusion Nurse Coordinator)
Dr Steve MacDonald (Orthopedic Surgery)
Dr Wai Ng (Neurosurgery)
Dr Ian Chinlee (Hematology)
Dr Ward Davies (General Surgery)
Dr Ken Harris (Vascular Surgery)
Dr George Nicolaou (Anesthesia and Perioperative Medicine)
The Vascular/Thoracic Program at the Victoria Campus is an extremely busy program, covering all types of elective and emergency cases, with the exception of lung transplantation. The endovascular stent program for abdominal and thoracic aneurysms is one of the best in North America. Our residency program encompasses four-week blocks of subspecialty training in Vascular/Thoracic anesthesia with clear objectives and daily assessments. The residents are encouraged to take part in clinical research. Our Fellowship program is well established with ongoing clinical research opportunities. Overall, the Vascular/Thoracic program at Victoria Campus has an incredible variety of interesting and complex cases. This offers excellent opportunities for Fellows and Residents to become proficient in Vascular/Thoracic anesthesia, both in a clinical and research setting.

At SJHC we embarked on the ambulatory regional anesthesia/analgesia (ARAA) program. This program enables patients to be discharged home with continuous peri-neural analgesia following upper limb surgery. This is a comprehensive program where patients and their families go through an education process peri-operatively. After conformation of effective analgesia they are discharged home. Community care resource access provides follow up and serves as resources or links back to anesthesia should it be required.
Research activity related to regional anesthesia at SJHC included:

1. *The impact of regional anesthesia together with a block room on peri-operative efficiency*. Investigators: Dr K Armstrong and Dr R Cherry. This study is completed and under going writing process.

2. *Ambulatory regional anesthesia / analgesia (ARAA) for upper limb surgery*. Investigators: K Horrill and K Armstrong. This program is still ongoing.

**Chronic Pain Program**

*Dr. Patricia Morley-Forster (Earl Russell Chair)*

City Wide Interdisciplinary Pain Rounds are held on the fourth Tuesday of the month at 4:30 pm in room 1, 900 Richmond Street. Most of the topics are of interest to those involved in treating chronic pain. However, at least one of the sessions per academic year is related to acute pain management.

Arrangements are being made for two Visiting Professors in the upcoming academic year; Dr. Allan Finley, an anesthesiologist from Dalhousie with interest in pediatric pain and Dr. Joel Katz, a psychologist appointment to the Department of Anesthesia in Toronto with an interest in post-operative pain and chronic post-surgical pain.

A six-part 12-hour seminar course on physiology of pain, pharmacology of opioids, acute pain management and chronic pain management is being offered for the first time this year to the Meds IV (transition) year.

Beginning July 1, 2003, there will be a Neuropathic Pain Fellowship with the focus being a Multidisciplinary Neuropathic Pain Clinic staffed by anesthesiologists and neurologists. This would be based at St. Joseph’s Health Care. There will also be two fellowships of combined regional anesthesia/chronic pain offered at SJHC supervised by Drs. Kevin Armstrong and Pat Morley-Forster.

The headquarters of the Canadian Pain Society has been moved from Ottawa to London based at Dr. Morley-Forster’s office in F208, St. Joseph’s Health Care. The president-elect is a psychologist on staff at
UWO, Dr. Gary Rollman. The annual meeting of the Canadian Pain Society will be held May 22-25th, 2003, in Toronto. There needs to be more anesthesiology representation. Information can be obtained on their website at: www.canadianpainsociety.ca.

A Strategic plan for the Pain Program was completed this summer. The final draft will be available in the next month to anyone who is interested. Plans are underway to construct a web site, which should be completed by January 2003.

The Lawson Health Research Institute Rehabilitation and Geriatric Care Research Day will be held on November 20th, 2002. The focus of the conference is “Pain an emerging area of research excellence within LHRI”. Dr. Morley-Forster will be speaking on “peripheral opioid analgesia; mechanisms and clinical implications.

Obstetrics Program

Dr. Sandra Katrisis (Director)

SJHC provides primary, secondary and tertiary perinatal care. LHSC provides primary and secondary perinatal care. Current number of deliveries annually are 3500-4000 at SJHC and 2500-3000 at LHSC.

Citywide workload continues to increase due to additional labouring patients from surrounding communities (there continue to be hospitals in the region unable to provide perinatal services around the clock due to lack of anesthesia, obstetrics, general surgery, pediatrics, or a combination thereof).

Dedicated OBS resident rotation continues to function well. One resident (very rare two) per month for 11 of the 12-month rotations. Residents report satisfaction with intense exposure to a variety of obstetrical cases during their rotation, and ability to solidify epidural skills. Night call at SJHC strengthens exposure to and experience in management of obstetrical anesthesia cases.

The Fellowship program has been filled for the last five years with solid trainees. The current fellow is Dr. Mark Cheesman. Fellows participate in the obstetrical preadmission program Wednesday mornings (provides
fellow opportunity to participate in management of complex cases from early prenatal stage). The current set up is a weekly rotation with two days per week in the obstetrical unit which allows independent work with supervision by staff consultant (fellows are in the obstetrical unit on Wednesdays when the resident is absent due to core teaching sessions).

Research/Protocol Development In Progress:
- Comparison of resident experience with Sprotte vs. Tuohy needle for initial instruction in epidural catheter placement.
- Effect of the respiratory cycle on accidental intravenous epidural catheter placement during labour.
- Development of standard protocol for intravenous remifentanil PCA in labour.
- Development of guidelines for use of pentaspan in labouring/early post-partum women.

Anesthesia Assistant Program

Dr. Fiona Ralley (Director)

An Anesthesia Assistant Medical Directive has been prepared and presented to the Medical Advisory Committee for approval. It is anticipated that this program will be implemented in the upcoming year.

Medical Informatics

Dr. Steven Dain (Director)

Informatics is the scientific field that deals with the storage, retrieval, sharing, and optimal use of biomedical information, data, and knowledge for problem solving and decision-making. It touches on all basic and applied fields in biomedical science and is closely tied to modern information technologies, notably in the areas of computing and communication.

Its ultimate role of the division is to evaluate, implement and maintain an electronic preoperative anesthesia record-keeping system. Current activities include evaluation of the marketplace to see what record-
keeping systems are available. Steven Dain is a member of the Canadian Anesthesiologist’s Society Data dictionary Taskforce, which is working with the American Patient Safety Foundation to develop a common ontology for coding of anesthesia data, so that data can be compared between centers.

Other projects include the UC acute pain service data, which is approaching 10,000 patient visits recorded. Dr Richard Cherry is working with the residents in obstetrical anesthesia with a palm pilot based database of resident experience.

Dr. David Smith continues to provide excellent service and support of the CLAS internet web-based anesthesiology conference and holiday scheduling software system. He is also providing a website for the question of the week.

Dr. Steven Dain continues to maintain and organizing the departmental website http://anesthesia.lhsc.on.ca which also provides interactive streaming audio and video of visiting professors lectures and the early morning TEE teaching sessions.

Dr. George Kanellakos attended the Stanford University Medical Informatics Course in Palo Alto California and we look forward to George’s input into this division in the future in setting up CD-ROM libraries within the department.
**Didactic Teaching and Education**

**Dr. Kevin Armstrong**
Departmental classroom courses:
  - Regional anesthesia for the upper limb
Interdepartmental classroom courses:
  - Postoperative pain management and regional anesthesia.

**Dr. Neal Badner**
Postgraduate seminars:
  - Coronary artery disease, risk assessment and perioperative management
  - Local anesthetics
Undergraduate seminars:
  - Medical students - Regional anesthesia
  - Dental students - Intravenous anesthesia

**Dr. Ron Butler**
Departmental classroom courses:
  - ICU Junior resident lectures - Critical care
  - Meds III clerkship lecture series
  - CCTC Junior resident lecture - Critical care
Interdepartmental classroom courses:
  - Coordinator Faculty wide academic half day - Clinical epidemiology and EMB

**Dr. Lois Champion**
- ICU Junior and Senior resident lectures series
- Coordinator, Practical care seminar series for senior residents, Program in Critical Care Medicine
Undergraduate lectures:
  - Pharmacology lectures: antiarrhythmic therapy; adrenergic pharmacology, cholinergic pharmacology and toxicology
  - Integrative Medicine lectures: shock and resuscitation

**Dr. Rosemary Craen**
Anesthesia Residents:
  - 2 neuroanesthesia lectures
Medical Students:
  - 1 anesthesia lecture
**Dr. Steven Dain**
Anesthesia Residents:
   Lecture: Gas Monitoring, Capnometry, Pulse Oximetry and the Anesthesia Work Station.
Medical Informatics 4th year Selective- Lecture:
   What in the world is Medical Informatics?

**Dr. John Fuller**
Airway Management, ICU Teaching Rounds, SJHC
Airway Management, ICU Teaching Rounds, SJHC
Oral Examiner, Making A Mark Anesthesia Course
Meeting Organizer, McMaster/UWO Research Day

**Dr. John Murkin**
   Departmental classroom courses: Complications in cardiac anesthesia
   Interdepartmental classroom courses: Acid base and fluid management

**Dr. Michael Sharpe**
   Departmental classroom courses: Junior resident teaching sessions in Critical Care
   UWO Senior resident teaching Program in Critical Care
Peer Reviewed Publications


Books:


Book Chapters


Non-Peer Reviewed Publications


International Standard Publications


**Abstracts**


Ganapathy, S. Co author: Abstract: Prospective clinical trial of Computer-Enhanced endoscopic off-pump coronary artery bypass grafting with one year follow up at the annual meeting of Society of Thoracic surgeons meeting at Fort Lauderdale, Florida, Jan 2002.
Invited Lectures/Visiting Professorships

**Dr. Neal Badner**

Canadian Society of Hospital Pharmacists Southwestern Chapter. *Postoperative Pain Management: An Anesthesiologists Point of View*. March 6, 2002


**Dr. Davy Cheng**


Refresher Course Speaker, Mexico Anesthesiology Society 28th Annual Meeting, Mexico City, Mex 1: *Off-Pump Cardiac Surgery: Perioperative Management and Outcome and 2: Critical Care in Cardiac Surgical Patients: Present and Future*. June 6-8, 2002.

**Dr. Rosemary Craen**


**Dr. Steven Dain**

University of Toronto, Faculty of Biomedical Engineering, *Usability Engineering and Medical Equipment Design*. February 2002

3rd Biennial Biomedical Engineering and Usability Engineering Congress, University of Applied Sciences, Münster, Germany. *Normal Accidents, Human error and Medical Equipment Design*. March 2002


**Dr. John Fuller**
**Dr. S. Ganapathy**  

**Dr. Adrian Gelb**  


Visiting Professor, Department of Anesthesia, University of Toronto. January 24-25, 2002.


Visiting Professor, Westfalischen Wilhelms-Universitat, Munster, Germany. June 2002.

Visiting Professor, Friedric-Alexander Universitat, Erlangen, Germany. 2002.
**Dr. John Murkin**


Fifth Annual New Era Cardiac Care: Innovation & Technology, Dana Point, California. *Neurocognitive Changes During Perfusion.* January 4-6, 2002.


Panel: Key Issues in Anesthesia in Off-CPB Surgery.
Panel: Hypotensive Anesthesia and Off-Pump Myocardial Revascularization: Role of Brain Monitoring – Pros and Cons.


CT Surgeons Group, Detroit MI.  *Optimizing Patient Care: Aprotinin, Antifibrinolytics and Clinical Outcomes in Cardiac Surgery.*

University of Michigan, Grand Rounds:  *Use of Serine Protease Inactivators in Cardiac, Transplantation and Orthopedic Surgery*


**Dr. Michael Sharpe**


A Clear Process to Organ Donation: An Information Forum for the Health Care Community:  London Health Sciences Centre - Victoria

The 2nd Symposium of Anesthesia for Organ Transplantation, Beijing, P.R. China. *Heart Transplantation.* June 1-4, 2002.

Conference Chair/Moderator

**Dr. Davy Cheng**


**Dr. Rosemary Craen**


**Dr. Steven Dain**  


**Dr. Sue Ganapathy**  

*Conducted* the live telecast regional anesthesia workshop at the CAS annual meeting. Regional section Chair at the CAS. June 25, 2002.

**Dr John Murkin**  
*Organized and chaired* second annual three-day multidisciplinary cardiac team meeting “New Approaches to Current Challenges” held at Parry Sound, and one day symposium “Aprotinin and Antithrombosis” in Key, West, Florida. September 21-23, 2001.

*Co-organized and chaired* the four day Outcomes 2002 Key West Meeting, “Cardiac and Vascular Surgery: Neurobehavioral Assessment, Physiological Monitoring and Cerebral Protective Strategies”. May 22-26, 2002.

*Course director and organizer* for two day “OPCRES: Anesthesiology’s Role in Improved Patient Outcomes” in Austin Texas. June 8-9, 2002.

*Scientific Advisor* for the Italian Multicenter trial of Brain Oxygen Saturation in Milan Italy. Acted as Scientific Advisor to HIH Symposium on Neurocognitive Changes Following Cardiac Surgery in Bethesda, Maryland. 2002.
**Department Research Grants/Funding**

**Peer Reviewed Grants/Funding**

**Dr. Ron Butler**  
Role: Principal Site Investigator

**Butler RJ**, Martin CM, Gwadry-Sridhar. *A cluster randomized trial to improve weaning and extubation from mechanical ventilation in community hospitals*. 2 year funding $145,000.00 - total award. PSI Foundation. 2001.  
Role: Principal Investigator

**Dr. Rosemary Craen**  
Role: Site Investigator

**Dr. Steven Dain**  

**Dr. Davy Cheng**  
Principal Investigator

Co-Investigator with Dr. Keyvan Karkouti (PI)
Co-Investigator with Dr. Richard Novick (PI)

Co-Investigator with Dr. George Djaiani (PI)

Dr. Adrian Gelb
Co-Investigator with J.X. Wilson and D.F. Cechetto

Advisory Committee Member

Co-Investigator with T-Y. Lee (PI), B.K. Rutt, M. Hogan

Cardiovascular dynamics: from model to physiology. ($103,975; $102,210; $98,925.) NSERC (Natural Sciences and Engineering Research Council) December 2000 - November 2003.
Co-Investigator with R.L. Hughson (PI), J.K. Shoemaker, D.C. Lin

Multi-slice CT and MR CBF perfusion mapping in thrombolytic treatment of stroke. ($34,772; $69,544; $69,544; $34,772). CIHR (Canadian Institutes of Health Research) 2001-2004.
Co-Investigator with T-Y. Lee (PI), M.J. Hogan, B.K. Rutt

Co-Investigator with R.A. Craen (PI), T-Y Lee
Non-Peer Reviewed Grants/Funding

Dr. Neal Badner


Dr. Davy Cheng
Co-Investigator

Double-blind, randomized multicenter trial to evaluate recovery parameters and extubation time upon arrival at ICU following Zemuron or pancuronium in OPCAB surgery. Organon Inc. US$50,000. 2001-2002.
Principal Investigator

Dr. Adrian Gelb
Mechanisms of remifentanil-induced hypotension. $12,000.00 Abbott Laboratories Limited. 2001.

The Effect of Aggrenox on Cerebral Perfusion during Cerebral Ischemia. $70,737. Boehringer-Ingelheim. 2001
Co-Investigator

Dr. John Murkin
Principal investigator.
Blood conservation using antifibrinolytics: a randomized trial in high risk cardiac surgery (Bart). Canadian Institutes of Health Research. Multicentre ongoing study.
Site Principal Investigator.
<table>
<thead>
<tr>
<th>Name</th>
<th>Start Date</th>
<th>End Date</th>
<th>Department</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>Dr. Wu Anshi</td>
<td>Aug 20, 01</td>
<td>Feb 28, 02</td>
<td>Department of Anesthesia</td>
<td>Beijing Redcross Chaoyang Hospital, Beijing, China</td>
</tr>
<tr>
<td>Dr. Jiang Zongbin</td>
<td>Sept 26, 01</td>
<td>June 30, 02</td>
<td>Department of Anesthesiology</td>
<td>The First Affiliated Hospital of Gungxi Medical University, China</td>
</tr>
<tr>
<td>Dr. Chung Schun Guo</td>
<td>May 15, 02</td>
<td>Aug 8, 02</td>
<td></td>
<td>Shenzhen, China</td>
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<tr>
<td>Dr. Khalid Samad</td>
<td>May, 02</td>
<td>June, 02</td>
<td>Chief Anesthesia Resident</td>
<td>Agha Khan University Hospital, Karachi, Pakastan</td>
</tr>
<tr>
<td>Dr. Ram Prasad Kaushal</td>
<td>May 1, 02</td>
<td>May 31, 02</td>
<td></td>
<td>Bhopal Memorial Hospital &amp; Research Centre, Bhopal, India</td>
</tr>
</tbody>
</table>
Department of Anesthesia & Perioperative Medicine Web Sites

Department of Anesthesia & Perioperative Medicine Web Site
http://anesthesia.lhsc.on.ca/

Anesthesia Residency Program
http://anesthesia.lhsc.on.ca/Residents/schedules/Academic2001-02.htm

Continuing Education Articles
http://anesthesia.lhsc.on.ca/cme/cme.htm

E-mail Directory
http://anesthesia.lhsc.on.ca/uwo/uwoemail.htm

Fellowship Programs
http://anesthesia.lhsc.on.ca/uwo/fellows/fellowships.htm

London Ontario Teaching Hospitals
http://anesthesia.lhsc.on.ca/stjoes/sjhca.htm
http://www.lhsc.on.ca/

UWO Faculty of Medicine
http://www.med.uwo.ca/