

Camille Hancock Friesen

EDUCATION

01/02-06/02	Pediatric Cardiac Surgery <i>Post graduate year eleven</i> <i>Advanced Fellowship</i>	Harvard University
2001-2002	Pediatric Cardiac Surgery <i>Post graduate year ten</i> <i>Fellow</i>	Harvard University
2000-2001	Cardiac Surgery <i>Post graduate year nine</i> <i>Chief Resident</i>	Dalhousie University
1999-2000	Cardiac Surgery <i>Post graduate year eight</i> Adult cardiac surgery 9 months Congenital cardiac surgery 6 months	Dalhousie University
1998-1999	Cardiac Surgery <i>Post graduate year seven</i> Thoracic surgery 4.5 months Adult cardiac surgery 7.5 months	Dalhousie University
1997-1998	General Surgery <i>Post graduate year six</i> <i>Chief Resident</i> General Surgery 12 months	University of Alberta
1996-1997	General Surgery <i>Post graduate year five</i> <i>Senior Resident</i> General Surgery 9 months Cardiac and Thoracic 3 months	University of Alberta
1995-1996	General Surgery <i>Post graduate year four</i> <i>Research Fellow</i> Master of Science Thesis: "A Strategy of Local Immunomodulation: Engineering Fas Ligand Expression by Human Islet Allografts to Prevent Rejection."	University of Alberta
1994-1995	Neurosurgery <i>Post graduate year three</i> <i>Junior Resident</i> Intensive Care Unit 3 months Neurosurgery 9 months	University of Alberta

1993-1994	General Surgery <i>Post graduate year two</i> <i>Junior Resident</i> General Surgery 9 months Plastic Surgery and Neurosurgery 3 months	University of Alberta
1992-1993	Rotating Internship <i>Post graduate year one</i> <i>Rotating intern</i> General Surgery, Pediatrics, Obstetrics/Gynecology, ICU/CCU, Emergency, Psychiatry 2 months each	University of Alberta
1992	Undergraduate Medicine Medical Degree (with distinction)	University of Alberta
1990	Bachelor of Medical Science (with honors)	University of Alberta
1985-1987	Undergraduate Science Pre-medicine courses (2 years)	University of Alberta

HONORS AND AWARDS

2000	Alberta Heritage Foundation for Medical Research Clinical Fellowship (\$105,000/2 years; renewable; offered/declined)
1997	Elected to Alpha Omega Alpha Honor Medical Society
1996	Marie Louise Imrie Graduate Student Awards Department of Surgery Prize in Basic Science Research: First
1996	Division of General Surgery Resident Prize in Basic Science Research: First
1993	Charles E. Lefebvre Memorial Medal: Intern of the Year
1992	Charles Fried Memorial Pediatrics Award
1987	The Honorable Don Mazankowski Scholarship
1987	Alberta Heritage Foundation for Medical Research Summer Bursary
1987	National Sciences and Energy Research Council Research Scholarship (offered/declined)
1987	Province of Alberta Certificate of Merit and Scholarship

- 1992 Medicine University of Alberta
Experimental Large Animal Surgery
2 month elective
Project included pig and dog islet isolation and implantation,
human islet cell isolation and cryopreservation, literature review of
intrathymic induction of donor-specific toleration
Supervisor: Dr. G.L. Warnock
- 1987 Undergraduate Science University of Alberta
Genetics Summer Studentship
4 month full time studentship
Alberta Heritage Foundation for Medical Research sponsored
Project thesis: "Induction and Quantification of Ura-3 Gene
Transcript in Yeast."
Supervisor: Dr. R.C. vonBorstel

RESEARCH SUPPORT

- 2005 IWK Health Centre, Category A Grant
Follow-up of Tetralogy of Fallot Patients: Transition from Pediatric to Adult Care
Funds Held: \$3,430.00
- 2003–Present Capital District Health Association
The Role of Immunoregulatory T Cells in Oral Transplant Tolerance; Induction in
Rat Cardiac Allograft
Funds Held: \$91,800.00

STUDENTS

- 2005 Ehab Eshtaya (Medicine)
Student Elective (30 weeks)
- 2005 Katherine Fleming (Science)
Summer Research Project (14 weeks)
- 2005 Jaime Snowdon (Medicine)
Summer Research Project (14 weeks)
- 2004 Jaime Snowdon (Medicine)
Student Elective and Summer Research Project (52 weeks)
- 2003 Emily Boudreau (Science)
Summer Research Project (9 weeks)

TEACHING

- Jan. – Feb. 2006 COPS Expert Tutor – Med 2 students, Cardio-Respiratory
Dalhousie University
Case Oriented – Problem Stimulated, 6 hours per week

Jan. – Feb. 2005	COPS Expert Tutor – Med 2 students, Cardio-Respiratory Dalhousie University Case Oriented – Problem Stimulated, 6 hours per week
Jan. – Feb. 2004	COPS Expert Tutor – Med 1& 2 students, Cardio-Respiratory Dalhousie University Case Oriented – Problem Stimulated, 6 hours per week
2002 – present	Anatomy and microsurgical lab; 2 hours monthly; medical students, residents.

ORAL PRESENTATIONS

- 2004 Jan Society of Thoracic Surgeons 40th Annual Meeting
Total Anomalous Pulmonary Venous Connections: An Analysis of Current Management Strategies In A Single Institution. Hancock Friesen CL, Zurakowski D, Thiagarajan RR, Forbess JM, DelNido PJ, Mayer JE, Jonas RA
Podium Presentation
- 2003 Jun Society of Heart Valve Disease, Paris, France
Intermediate Outcomes of Atrioventricular Valvuloplasty in Lateral Tunnel Fontan Patients. C.L.Hancock Friesen, M.C. Sherwood, D.F.Frank, P.J. del Nido, R.A.Jonas, J.E.Mayer, J.M.Forbess Children's Hospital Boston
Podium Presentation
- 2002 Nov American Heart Association, Chicago, IL
Anatomic Repair of Corrected Transposition of the Great Arteries. CL Hancock Friesen, RA Jonas, PJ Del Nido, JE Mayer, SD Colan, P Lang, ED Blume
Podium presentation
- 2000 Oct Canadian Cardiovascular Congress 2000, Vancouver, Canada.
Zero Proximals: Composite Radial Artery Grafts
Podium Presentation
- 2000 Oct Canadian Cardiovascular Congress 2000, Vancouver, Canada.
Does Beating Heart Surgery Compromise Complete Revascularization?
Podium Presentation
- 2000 Oct Canadian Cardiovascular Congress 2000, Vancouver, Canada.
Posterior Annular Plication: A Simple and Effective Operative Technique in Ebstein's Anomaly.
Podium presentation
- 2000 Aug 10th World Congress of Cardiothoracic Surgery, Vancouver, Canada.
Does Beating Heart Surgery Compromise Complete Revascularization?
Podium presentation
- 1999 May Terrence Donnelly Cardiac Residents' Research Day, University of Toronto.
Coronary Artery Bypass Grafting in the Beating Heart
Podium presentation

- 1999 May Department of Surgery Research Day; Dalhousie University, Halifax, Canada.
Minimally Invasive Coronary Artery Bypass Grafting: The Dalhousie Experience
18 month case-control comparison of conventional coronary artery bypass grafting with off pump coronary artery revascularization.
Podium presentation
- 1997 Apr Division of General Surgery Resident Research Competition; University of Alberta, Canada.
Pelvic Fractures with Hypotension: A Review of the Edmonton Experience
10 year retrospective study
Podium presentation
- 1996 Sept Royal College of Physicians and Surgeons National Meeting; Halifax, Canada.
Engineering Fas Ligand Expression to Prevent Allojection
Podium presentation
- 1996 Jun Canadian Association of General Surgery; Frontiers in Research, Mississauga, Canada.
A Molecular Biology Strategy of Local Immunomodulation; Fas Ligand
Podium presentation
- 1996 Apr Department of Surgery Research Competition; University of Alberta, Canada.
Fas Ligand: A Strategy of Local Immunomodulation to Prevent Allograft Rejection
Podium presentation
- 1995 Mar Alberta Neurosurgical Meeting; Banff, Canada.
Carotid Stenosis and Incidental Intracranial Aneurysm
Retrospective review and current literature review
Podium presentation
- 1994 Apr Division of General Surgery Resident Research Competition; University of Alberta, Canada
Effect of Surgical Enterotomy on Morbidity and Mortality in Severe Acute Pancreatitis
10 year retrospective review and current literature review
Podium presentation

POSTER PRESENTATIONS

- 2006 March Canadian Society of Transplantation
Mechanisms of Oral Transplant Tolerance are Different in Rat Cardiac and Renal Transplant Models
CL Hancock Friesen, J Zhou, J Snowdon, A Oxner, TDG Lee, B Nashan
Poster Presentation
- 2005 Sept Fourth World Congress of Pediatric Cardiology and Cardiac Surgery
Oral Transplant Tolerance Induction in Heterotopic Rat Cardiac Allografts: Mechanisms of Tolerance are Different in Cardiac and Renal Transplants.
CL Hancock Friesen, J Zhou, A Oxner, J Snowdon, TDG Lee, B Nashan
Poster Presentation

- 2003 Jun World Congress of Pediatric Critical Care
Extracorporeal Membrane Oxygenation Support of Shunted Single Ventricle Patients. C. Allan, R.R. Thiagarajan, M.A. Almodovar, S.J. Roth, C. Hancock Friesen, J.M. Forbess, P.C. Laussen. Children's Hospital Boston
Poster presentation
- 2001 Jun International Society for Hemostasis and Thrombosis, Paris, France.
Peri-Operative Shunt Thrombosis and Death Due to Heparin-Induced Thrombocytopenia (HIT) in a Neonate with Complex Congenital Heart Disease. Boshkov L.K, Hancock Friesen C.L., Rebeyka I.M.
Poster Presentation
- 2001 May Third World Congress of Pediatric Cardiac Surgery and Cardiology, Toronto, Canada.
Single Coronary Artery: Management Technique in the Arterial Switch Operation. Hancock Friesen C.L., Jonas, R.A.
Video Presentation
- 2001 May Third World Congress of Pediatric Cardiac Surgery and Cardiology, Toronto, Canada.
Posterior Annular Plication: A Simple and Effective Operative Technique in Ebstein's Anomaly.
Poster Presentation
- 2000 Oct Canadian Cardiovascular Congress 2000, Vancouver, Canada.
Reduced Transfusion Requirements in Beating Heart Surgery
Poster presentation
- 1999 Aug Canadian Cardiovascular Society National Meeting, Quebec City, Canada.
Coronary Artery Bypass Grafting in the Beating Heart
Poster presentation

INVITED LECTURES

- 2005 Oct Canadian Cardiovascular Congress, Montreal, Canada
Arrhythmia Surgery in Adults with Two Ventricle Congenital Heart Disease
- 2005 Sep Heart Talk Conference, Halifax, Canada
In Search of Allostasis
- 2001 Nov The Children's Hospital Cardiac Nurse Education Workshop, Boston, MA
Extracardiac and Conversion Fontans
- 2001 Oct Canadian Cardiovascular Congress, Halifax, Canada.
PH Stat versus Alpha Stat: Acid Base Management Strategies in Pediatric Cardiopulmonary Bypass

PUBLICATIONS

Complete Revascularization is Compromised in Off-Pump Coronary Artery Bypass Grafting
OPCAB Compromised Revascularization.

Hancock Friesen CL, Buth KJ, Stewart K, Wood J, Sullivan JA, Hirsch GM.
Manuscript submitted (JACC Manuscript #010606-0085).

Total anomalous pulmonary venous connection: An analysis of current management
strategies in a single institution.

CL Hancock Friesen, D Zurakowski, RR Thiagarajan, JM Forbess, PJ delNido, JE
Mayer, RA Jonas.
Annals of Thoracic Surgery 2005;79(2):596-606.

Intermediate outcomes of atrioventricular valvuloplasty in lateral tunnel fontan patients
(Fontan AV Valvuloplasty).

CL Friesen, MC Sherwood, K Gauvreau, DF Frank, PJ delNido, RA Jonas, JE
Mayer, JM Forbess.
The Journal of Heart Valve Disease 2004 Nov;13(6):962-71; discussion 971

Posterior annular plication: A simple and effective operative technique in Ebstein's Anomaly.

Hancock Friesen CL, Chen R, Howlett JG, Ross DB.
Annals of Thoracic Surgery 2004 Jun;77(6):2167-71

Coronary bypass surgery performed off-pump does not result in lower in-hospital morbidity
than coronary artery bypass grafting performed on-pump.

Legare JF, Buth KJ, King S, Wood J, Sullivan JA, **Friesen CH**, Lee J, Stewart K,
Hirsch GM.
Circulation 2004 Feb 24;109(7):810-2

Surgical management of the single ventricle.

CL Hancock Friesen, JM Forbess
Progress in Pediatric Cardiology 2002;16(1):47-68.

Neurodevelopmental outcome after congenital heart surgery: Results from an institutional
registry.

J.M. Forbess, Karen J. Visconti, **Camille Hancock Friesen**, Robert J. Howe, David
C. Bellinger, Richard A. Jonas.
Circulation 2002 Sept 24;106(12 Suppl I):I95-102.

Is it safe to train residents to perform cardiac surgery?

RJ Baskett, KJ Buth, JF Legare, Hassan A, **CH Friesen**, Hirsch GM, DB Ross, JA
Sullivan.
Annals of Thoracic Surgery 2002;74(4):1043-8; discussion 1048-9.

Function of human intrinsic cardiac neurons in situ.

R.C. Arora, G.M. Hirsch, K.J. Hirsch, **Camille Hancock Friesen**, J.A. Armour.
Manuscript: American Journal of Physiology Regulatory, Integrative and
Comparative Physiology 2001 Jun;280(6):R1736-40.

Does beating heart surgery compromise complete revascularization?

C. Hancock Friesen, K. Buth, G. Thompson, J. Sullivan, G. Hirsch.
Manuscript in progress

- Traumatic coronary artery fistula management: Case report and collective review. **Hancock Friesen CL**, Howlett JG, Ross DB.
Annals of Thoracic Surgery 2000;69(6):1973-82.
- Churg-Strauss Syndrome leading to small bowel infarction: An unusual case of abdominal pain in a young patient.
Sookram S, **Hancock Friesen C**, Ferguson JP, Sosnowski T, Russell LJM.
Brief Communication: Canadian Journal of Gastroenterology 1998;12(3):219-222.
- Improved survival of biolistically transfected mouse islet allografts expressing CTL-Ig or soluble Fas ligand.
Gainer AL, Suarez-Pinzon WL, Min WP, Wiston JR, **Hancock-Friesen C**, Korbitt GS, Rajotte RV, Warnock GL, Elliott JF.
Transplantation. 1998 Jul 27;66(2):194-9.

ABSTRACTS

- Oral Transplant Tolerance Induction in Heterotopic Rat Cardiac Allografts: Mechanisms of Tolerance are Different in Cardiac and Renal Transplants.
CL Hancock Friesen, J Zhou, A Oxner, J Snowdon, TG Lee, B Nashan
Abstracts Book 4th World Congress of Pediatric Cardiology and Cardiac Surgery 2005;288.
- Extracorporeal membrane oxygenation support of patients with shunted single ventricle.
C Allan, RR Thiagarajan, MA Almodovar, SJ Roth, **C Hancock Friesen**, JM Forbess, PC Laussen.
Pediatric Critical Care Medicine 2003;4(3)A120.
- Anatomic repair of congenitally corrected transposition of the great arteries.
CL Hancock Friesen, RA Jonas, PJ Del Nido, JE Mayer, SD Colan, P Lang, ED Blume.
Circulation 2002;106(19) Suppl: II-395.
- Reduced transfusion requirements in beating heart surgery.
CL Hancock Friesen, KJ Buth, C MacDougall, MR Wood, JA Sullivan, GM Hirsch.
The Canadian Journal of Cardiology 16(Suppl F):235F
- Zero proximals composite radial artery grafts.
CL Hancock Friesen, KJ Buth, C MacDougall, JR Wood, K Stewart, GM Hirsch, JA Sullivan.
The Canadian Journal of Cardiology 16(Suppl F):122F
- Posterior annular plication: A simple and effective operative technique in Ebstein's Anomaly.
Hancock Friesen CL, Howlett JG, Ross DB.
Cardiology in the Young; May 2001;11 Suppl 1:273.
- Does beating heart surgery compromise complete revascularization?
C. Hancock Friesen, K. Buth, G. Thompson, J. Sullivan, G. Hirsch.
Cardiovascular Engineering 2000;5(20):110.

Coronary artery bypass grafting in the beating heart.

Hancock Friesen C, Buth K, MacDougall C, Wood J, Hirsch G, Sullivan J.
The Canadian Journal of Cardiology 1999;15(Suppl D):201D.

Prolongation of allograft survival of transfected islets expressing human CTLA4-Ig, human soluble fas ligand or a combination of the two.

Gainer AL, Suarez-Pinzon WL, Min WP, **Hancock Friesen C**, Elliott JF et.al.
Transplantation Proceedings 1998;30:534.

Engineering soluble fas ligand expression from donor islets to prevent graft rejection.

Hancock Friesen C, Rajotte R, Korbitt G, Warnock G, Elliott J.
Canadian Journal of Surgery, Supplement 1996;39(4):A12-13.

An A-T transversion at the initiation site results in a leaky phenotype.

de Larminat MA, Lee, GS, **Hancock C**, von Borstel RC.
Abstract Presented at Cold Springs Harbor Genetics Conference.

LICENSURE AND CERTIFICATION

2005	Fellow of the American College of Surgeons (#103943)
2003	Full License, College of Physicians and Surgeons of Nova Scotia (#011829)
2002	Full License, Massachusetts Board of Registration in Medicine (#212897)
2000	Fellow of the Royal College of Surgeons, Cardiac Surgery (#488664)
1998-2002	Specialist License, College of Physicians and Surgeons, NS (#11829)
1998	Fellow of the Royal College of Surgeons, General Surgery(#488664)
1997	Master of Science
1997	Advanced Cardiac Life Support (Provider)
1995	Principles of Surgery Examination (Pass)
1994, 1999	Advanced Trauma Life Support (Instructor)
1993- 2002	General License College of Physicians and Surgeons, AB (#11242)
1994	Licentiate of the Medical Council of Canada Part II
1993	Advanced Trauma Life Support (Provider)
1992	Licentiate of the Medical Council of Canada Part I

PROFESSIONAL EMPLOYMENT

01/03-Present	Chief Surgeon, Paediatric Cardiac Surgery, IWK Health Centre, Halifax NS
10/02-Present	Staff Surgeon, Adult Cardiac Surgery, Maritime Heart Centre, Halifax NS
10/02-Present	Assistant Professor, Dalhousie University, Halifax, NS
10/00-12/00	Locum tenens: Adult cardiac surgery; Maritime Heart Centre, Halifax, NS
1996-1997	Locum tenens: Family medicine; LaPerle Family Clinic, Edmonton, AB

PROFESSIONAL INVOLVEMENT

1998-2006	Cardiac Surgery Resident Training Committee Member (Dalhousie University)
1998-2006	Cardiac Surgery Resident Selection Committee Interviewer on Selection Committee (Dalhousie University)
2002-2006	Transplant Committee Member , QEII Health Sciences Centre

2002-2006	Adult Congenital Heart Disease Committee Member , QEII Health Sciences Centre
2002-2006	Residency Training Committee Member , QEII Health Sciences Centre
2003-2006	Undergraduate Medical Education, Division of Cardiac Surgery Director , QEII Health Sciences Centre
2003	Canadian Council on Health Services Accreditation; Cardiac Surgery Accreditation Team Leader , Capital District Health Authority, Halifax, NS
1998	Royal College Internal Review Orthopedics Reviewer (University of Alberta)
1997-1998	Faculty of Medicine Interview Committee Interviewer on Selection Committee (University of Alberta)
1997-1998	General Surgery Selection Committee Interviewer on Selection Committee (University of Alberta)

PROFESSIONAL AFFILIATIONS

2005-Present	American College of Surgeons ; Fellow
2003-Present	International Society For Heart And Lung Transplantation ; Member
2003-Present	American Heart Association ; Early Career Member
1998-Present	Society of Thoracic Surgeons ; Associate member
1998-Present	Fellow of the Royal College of Surgeons (Canada); General Surgery, Cardiac Surgery
1998-Present	Canadian Cardiovascular Society ; Member

PERSONAL INTERESTS

Language Study: French Lessons, weekly
Stained Glass/Painting/Photography: recreational
Swimming: Bronze Cross Certified, Masters Swim Club Competitor
Running: Recreational and competitive; currently mileage 25-30 miles/week
Horse Riding: American Quarter Horse Association Member and Breeder;
Team Cattle Penning Competitor
Scuba Diving: NAUI/PADI certified; 22 open water dives (Australia, Barbados, Dominican Republic, Hawaii, Mexico)
Pianist: Royal Conservatory of Music (Grade X with honors); Provincial Level Competitor, Instructor