

**ERIC JACOBSON, MBChB, MPHE, FRCPC**

Professor (with tenure) and Chair, Department of Anaesthesiology, University of Manitoba; Professor, Department of Internal Medicine; Medical Director, Winnipeg Regional Health Authority Anaesthesiology Program; Winnipeg, CANADA

**ADDRESS**

Office: Department of Anesthesiology  
University of Manitoba,  
Anaesthesia Program, Winnipeg Regional Health Authority  
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671 William Avenue, Winnipeg, Manitoba, Canada, R3E 0Z2  
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**PRESENT POSITION**

*July 2006 – Present*

Professor and Chairman, Department of Anesthesia  
University of Manitoba, Winnipeg, Manitoba, Canada  
Medical Director, Anesthesiology Program  
Winnipeg Regional Health Authority  
Winnipeg, Manitoba, Canada

*In these roles, I oversee a faculty of 120 Anaesthesiologists, 45 residents and fellows, 15 Clinical Assistants and over 100 staff for the clinical delivery of anesthetic care at 10 hospitals, as well as the conduct of the educational and research endeavours of the University Department and the Winnipeg Regional Health Authority. I remain an active practitioner, teacher and researcher in cardiac anaesthesiology/ TEE, non-cardiac anaesthesiology, professionalism, cardiac and medical-surgical critical care. My clinical work and my local/national/ international research and teaching collaborations are a daily inspiration for me.*

## **UNIVERSITY MEDICAL EDUCATION**

### **Medical School:**

*1979-1984: MBChB:* University of Cape Town Medical School, Cape Town, South Africa

## **SPECIALTY AND OTHER POSTGRADUATE TRAINING**

*1995-1997:* MHPE: Masters in Health Professions Education, University of Illinois in Chicago  
*1994-1995:* Critical Care Fellowship, Mayo Clinic, Rochester, Minnesota  
Cardiac Anesthesia Fellowship, Mayo Clinic, Rochester, Minnesota  
*1993-1994:* FRCPC (Critical Care): Critical Care Fellowship, University of Manitoba, Canada  
*1989-1993:* FRCPC (Anaesthesiology): Fellow of the Royal College of Physicians and Surgeons of Canada (Anaesthesiology): Anaesthesia Residency, University of Manitoba, Winnipeg, and Dalhousie, University, Halifax, Nova Scotia, Canada (including 6 months specialty training in transesophageal echocardiography, Department of Cardiology, University of Manitoba)

## **EMPLOYMENT HISTORY**

*July 2006 – present*

Professor (with tenure) and Chairman, Department of Anaesthesiology and Medical Director, Winnipeg Regional Health Authority Anaesthesiology Program  
Attending Anaesthesiologist,  
Attending Intensivist, Cardiac and General Critical Care

*June 2000 – July 2006*

Associate Professor of Anesthesiology and Cardiothoracic Surgery  
Washington University School of Medicine, St. Louis, MO  
Director, Cardiothoracic Critical Care

*October 2004 – July 2006*

Chief, Division of Cardiothoracic Anaesthesiology

*2004- July 2006*

Chief, Division of Cardiothoracic Anesthesiology, Washington University School of Medicine, St. Louis, MO

*2003-June 2005*

Appointed to the Executive of Department of Anesthesiology as Head of Quality Assurance and Improvement

*2000-July 2006*

Medical Director of Cardiothoracic Critical Care, Barnes Jewish Hospital/Washington University Medical Centre, St Louis, Missouri

Attending Cardiothoracic Anesthesiologist, Barnes Jewish Hospital/Washington University Medical Centre, St Louis, Missouri

Attending Intensivist, Surgical-Burn-Trauma Unit, Barnes Jewish Hospital/Washington University Medical Centre, St Louis, Missouri

Attending Anesthesiologist, Centre for Preoperative Assessment and Planning, Barnes Jewish Hospital/Washington University Medical Centre, St Louis, Missouri

*1997 – 2000*

Program Director, Critical Care Training Program, University of Manitoba  
Attending Anesthesiologist, Health Science Centre, University of Manitoba  
Member, Section of Cardiovascular Anaesthesia, Health Science Centre, University of Manitoba  
Attending Intensivist, Health Science Centre and St Boniface Hospital, University of Manitoba  
*1995-1997*

Attending Anaesthesiologist and Attending Intensivist, University of Chicago Hospitals,  
Attending physician, University of Chicago Burn Unit, Chicago, IL  
Section of Cardiothoracic Anesthesia, University of Chicago  
Section Head, Urological Anesthesia, University of Chicago  
Member, Section of Cardiovascular and Thoracic Anesthesia

*July 1994 - June 1995*

Critical Care Fellowship, Mayo Clinic, Rochester, MN  
Cardiac Anesthesiology Fellow, Mayo Clinic, Rochester, MN

*July 1993 - June 1994*

FRCPC: Multidisciplinary Critical Care Fellowship, University of Manitoba, Winnipeg, MB

*July 189- June 1993*

Anesthesiology Residency, University of Manitoba and Dalhousie University, Halifax,  
*Nov 1986-1990*

Rural General and Emergency Medicine Practice: Newfoundland and Manitoba  
*1985*

Rotating Internship, Groote Schuur Hospital, Cape Town, South Africa

### **ACADEMIC APPOINTMENTS**

*July 2006 – Present*

Professor, with tenure, Department of Anesthesia, University of Manitoba, Winnipeg, Manitoba,  
Canada

Professor, Department of Internal Medicine, University of Manitoba, Winnipeg, Manitoba,  
Canada

*June 2000-July 2006*

Associate Professor, Department of Anesthesiology, Washington University School of Medicine,  
St Louis, Missouri

Associate Professor, Division of Cardiothoracic Surgery, Washington University School of  
Medicine, St Louis, Missouri

*June 1999-June 2000*

Associate Professor, Department of Anaesthesia, University of Manitoba

Associate Professor, Department of Surgery, University of Manitoba

Assistant Professor, Department of Medicine, University of Manitoba

Program Director, Multidisciplinary Critical Care Training Program, University of Manitoba

*1997 - June 1999*

Assistant Professor, Department of Anaesthesia, University of Manitoba

Assistant Professor, Department of Surgery, University of Manitoba

Assistant Professor, Department of Medicine, University of Manitoba

Program Director, Multidisciplinary Critical Care Training Program, University of Manitoba

*1995-1997*

Assistant Professor, Department of Anesthesia and Critical Care, University of Chicago,  
Chicago, IL

## **HOSPITAL APPOINTMENTS**

*2000-July 2006*

Attending Staff, Department of Anesthesiology, Division of Cardiothoracic Anesthesia,  
Washington University School of Medicine, St Louis, MO

Attending Staff, Division of Cardiothoracic Surgery, Washington University School of  
Medicine, St Louis, MO

Medical Director, Cardiothoracic Critical Care, Barnes-Jewish Hospital Washington University  
School of Medicine Medical Centre, St Louis, MO

*1997- 2000*

University of Manitoba Affiliated Teaching Hospitals

Anaesthetist and Intensivist, Program Director, Multidisciplinary Critical Care Training  
Program

*1995-1997*

University of Chicago and Affiliated Hospitals

Attending Anesthesiologist and Intensivist

*1994 - 1995*

Mayo Clinic and Foundation, Rochester, MN

Fellow, Cardiovascular and Thoracic Anesthesia, and Critical Care

*1990 - 1994*

University of Manitoba Teaching Hospitals, Winnipeg, Manitoba, Canada

Resident and Fellow

*1990 – 1994 (part-time appointments, Critical Care and Emergency Medicine)*

Brandon General Hospital, Brandon, Manitoba, Canada

Misericordia General Hospital, Winnipeg, Manitoba, Canada

St. Boniface General Hospital, Winnipeg, Manitoba, Canada

*1989 - 1990*

Dalhousie University Hospitals, Halifax, Nova Scotia, Canada

Resident

*1989 - 1990 (part-time Emergency Medicine)*

Springhill Hospital, Springhill, Nova Scotia, Canada

Digby Regional Hospital

*October 1986 - June 1989*

Virden District Hospitals, Virden, Manitoba, Canada

Attending Physician, Family Physician

Brandon General Hospital, Brandon, Manitoba, Canada

Courtesy Staff Privileges

*1986*

Newfoundland Cottage Hospital System, Newfoundland, Canada:

Medical Officer, Attending Physician, Emergency Officer

## **COMMITTEES SERVED**

*2013-present*

GFT restructuring Committee

National Committee on Anesthesia Care Team, for the Canadian Anaesthesiologists' Society

*July 2012- present*

Founding member and executive member, Canadian Anesthesiologists Society Critical Care

Section

*July 2011- present*

Founding Member, CANCARE Society (National cardiac Critical Care group)

*July 2006-Present*

Chair - Anesthesia Program Committee, University of Manitoba/WRHA

Cahir, Academic Oversight Grants Committee, University of Manitoba department of Anesthesia

Winnipeg Regional Health Authority Medical Executive Council

Faculty of Medicine Department Heads' Council, University of Manitoba

Winnipeg Regional Health Authority Surgery Program Council Team

Winnipeg Regional Health Authority Joint Surgery/Anesthesia Program Committee

University of Manitoba Anesthesia Postgraduate Program Educational Committee

Faculty of Medicine, Executive Council, University of Manitoba

Association of Canadian University Departments of Anesthesia (ACUDA)

American Society of Critical Care Anesthesiologists Society (ASCCA) International Section

Washington University Ethics Committee 2008-present

Barnes-Jewish Hospital Critical Care Committee

Barnes-Jewish Hospital Pharmacy and Therapeutics Committee

Barnes-Jewish Hospital Laboratory Utilization Committee

Department of Anesthesiology Education Committee

*July 2006-2011*

University of Manitoba Undergraduate Progress Committee

*1998-2000*

Postgraduate Medical Education Committee, University of Manitoba Nucleus Committee, Royal

College of Physicians and Surgeons Specialty Committee on Critical Care

*1997-2000*

Manitoba Medical Association, Section of Anesthesiology. Executive Member

Manitoba Medical Association, Section of Anaesthesia (Executive Nomination)

Winnipeg Hospital Authority Committee on Critical Care

Chairman, Residency Training Committee in Critical Care, University of Manitoba

Postgraduate Education Committee, Department of Internal Medicine, University of Manitoba

Royal College of Physicians and Surgeons of Canada Critical Care Nucleus Committee -

corresponding member

Executive Member, Canadian Intensive Care Foundation

*1995-1996*

Education Committee, University of Chicago, Department of Anesthesia and Critical Care

Equipment Committee, University of Chicago, Department of Anesthesia and Critical Care

*1994-1995*

Mayo Clinic Critical Care Education Committee

*1993 - 1994*

Past President - Professional Association of Residents and Interns of Manitoba

Executive Member - Canadian Association of Interns and Residents

Representative to Board of Canadian Medical Association

Member - Royal College of Physicians and Surgeons Credentials Committee

Representative to Education Committee of Critical Care Section, University of Manitoba

*1992 - 1993*

President - Professional Association of Residents and Interns of Manitoba

Executive member - Canadian Association of Residents and Interns

Member - Royal College of Physicians and Surgeons of Canada Credentials Committee

Member - University of Manitoba Post Graduate Education Committee

Member - University of Manitoba Faculty Executive Committee

1991 - 1992

Vice President - Professional Association of Residents and Interns of Manitoba

Board member - Canadian Association of Residents and Interns

Member - University of Manitoba Faculty Post Graduate Education Committee

Member - University of Manitoba Faculty Executive Committee

1990 - 1991

Member - Resident Education Committee (Anaesthesia), University of Manitoba

Anaesthesia Representative to the Professional Association of Residents and Interns of Manitoba

1986 - 1989

Chief of Staff, Virden District Health System, Manitoba, Canada

Board Member, Virden District Health Board, Virden, Manitoba, Canada

Medical Director, Westman Geriatric Nursing Home, Virden, Manitoba, Canada

AIDS Educator and Advisor, Westman School Division, Manitoba, Canada

1985

Intern Committee, University of Cape Town, Cape Town, South Africa

1981-1985

Board Member, University of Cape Town Student's Health and Welfare Centres Organisation

### **OTHER ACADEMIC SERVICE POSITIONS**

2006-present: Association of Canadian University Departments of Anesthesiology

2006 – present: Elected to the Association of University Anesthesiologists (AUA), USA

2006-present. Elected to the Academy of Anesthesiology (leaders in the profession in North America)

2006-present: Research Advisory Board, Canadian Anesthesiologists Society

2006- invited to editorial Board, Canadian Journal of Anesthesiology

2005-present: Guest reviewer, **American Journal of Surgery**

2004-present: Guest reviewer, **Anesthesiology**

2002-present: Guest reviewer, **Anesthesia Analgesia**

2002-present: Guest reviewer, **Journal of Thoracic and Cardiovascular Surgery**

2002-present: Guest reviewer, **Anesthesiology**

2000: Guest reviewer, **Journal of Thoracic and Cardiovascular Anesthesia**

1999: Appointed to editorial board, **Canadian Journal of Anesthesia**

1998. Guest reviewer for the journal **Chest**

1998. Guest reviewer for **Canadian Journal of Anesthesia**

### **SPECIALTY BOARDS**

American Board of Anaesthesiology, Board Certified (1995)

Fellowship of The Royal College of Physicians of Canada (FRCPC) in Anaesthesiology (1993)

Fellowship in Critical Care, Royal College of Physicians of Canada (1995)

### **EXAMINATIONS**

American Board of Anaesthesiology - Written Exam 1995, Oral Exam 1996

RCPSC - Anaesthesia Written Exam 1992, Anaesthesiology Oral Exam, 1993

FMGEMS – 1993, FLEX – 1991, LMCC - 1986

### **MEDICAL LICENSURE**

Missouri State Medical Board

Manitoba Medical License

Previously held Newfoundland, Nova Scotia, Minnesota, and Illinois Medical Licences

### **SPECIAL LICENSURE**

Manitoba College of Physicians and Surgeons for Independent Practice of Echocardiography (Transthoracic and Transesophageal): 1997-present

### **HONOURS AND AWARDS**

*2015*

Canadian Anaesthesiologists Society: Canadian Teacher of the year Award

*2012*

Anesthesiologist of the Year, St Boniface Hospital

*2006*

Washington University School of Medicine. Invitation from the graduating class of 2006 to process with them at commencement. This invitation represents the class' nomination of top teachers who have influenced the class' development as future physicians.

*2000*

University of Manitoba teaching excellence award for medical student education

*1997*

Teacher of the Year, University of Chicago Department of Anesthesiology and Critical Care

*1995*

Mayo Clinic Teacher of the Year Award, Section of Critical Care Medicine

*1995-1996*

Royal College of Physicians and Surgeons of Canada Scholarship/Award for the study of Medical Education (\$40,000)

*1983*

The University of Cape Town Menzies Award for Academic Performance and Overall Contribution to University Affairs

*1979-1984*

University of Cape Town Merit Scholarships

### **ACTIVE PROFESSIONAL MEMBERSHIPS AND SOCIETIES**

Academy of Anesthesiologists, USA

Association of University Anesthesiologists (AUA), USA

Association of University Departments of Anesthesia (ACUDA; Canada)

Missouri Medical Society

Minnesota Medical Association

Manitoba Medical Association

Fellow of the Royal College of Physicians and Surgeons of Canada

Canadian Anaesthetists Society

American Board of Anesthesiology

Society for Critical Care Medicine

American Society of Anesthesiology

Illinois Society of Anesthesiology

International Anesthesia Research Society  
Society of Cardiovascular Anesthesia

**STUDENTS MENTORED IN LAST 5 YEARS:**

**2015-2016**

Michael Plett; Tyler Denisiuk; Allison Love; Jordon Banman; Duncan Maguire  
Kristin McPhail; Regan Gray; Matthew Katz; Nick Miller; Andrew Denisuik  
Evan Hildahl. 2 new students, TBA

**2014/2015**

Michael Plett; Tyler Denisiuk; Allison Love; Jordon Banman; Duncan Maguire  
Kristin McPhail; Paola Camorlinga; Regan Gray; Matthew Katz; Nick Miller; Andrew Denisuik  
Evan Hildahl

**2013/2014**

Michael Plett; Tyler Denisuik; Allison Love; Jordan Banman; Duncan Maguire; Kristin McPhail  
Matthew Katz; Regan Gray; Paola Camorlinga; Kristin McPhail

**2012/2013**

Madison Young; Jarrod Nickel; Regan Carlyle; Matthew Katz; Paola Camorlinga; Jordan  
Banman; Duncan Maguire; Kristin McPhail

**2011/2012**

Paola Camorlinga; Regan Gray; Matthew Katz; Madison Young; Jarrod Nickel  
Lindsey MacDonald; Davinder Singh

**PUBLICATIONS**

**Thesis: Master of Health Professions Education (MHPE)**

Teaching anesthesia resident's oral examination skills: The effect on grader and self-assessment scores. On file, *University of Illinois at Chicago, March 2001*. This pretest-posttest prospective study investigated the effect of teaching communication skills to anesthesiology trainees on oral examination scores, as well as studying interrater reliability between examiners from the American Board of Anesthesiology and the Royal College of Physicians and Surgeons of Canada

**Papers in preparation or submitted**

Kereliuk, S., Enns, S., Villafranca, A., **Jacobshn, E.** Negative intraoperative behaviors: a critical review

Villafranca, A., Robinson, S., Rodebaugh, T., **Jacobshn, E.** Development of scales to measure exposure and responses to negative intraoperative behaviors

Villafranca, A., Parveen, D., Rajamohan, R., **Jacobsohn, E.** Agreement of risk disclosure from 5 anesthesiology associations

Govender, D., **Jacobsohn, E.**, Parveen, D., Kereliuk, S., Villafranca, A. Patient education materials from 23 national anesthesia associations: availability, readability and linguistics.



Kereliuk, S., Villafranca, A., **Jacobsohn, E.** Government Health Organizations do not provide appropriate research consent form templates

Kereliuk, S., Villafranca, A., **Jacobsohn, E.** Government Health Organizations do not provide appropriate research consent form templates, Euroanesthesia Conference (2015),

Villafranca, A., Denisuik, T., , Benoit, P., **Jacobsohn, E.** Development of a questionnaire to measure learning behaviors during operating room rotations

Villafranca, A., Denisuik, T. Benoit, P., **Jacobsohn, E.** Do research ethics boards agree on the elements that should be disclosed in consent forms?

Villafranca, A., Enns, S., Parveen, D., **Jacobsohn, E.** Development of a questionnaire to measure learning behaviors during operating room rotations.

### **Peer reviewed papers published**

Gradwohl SC, Aranake A, Abdallah AB, McNair P, Lin N, Fritz BA, Villafranca A, Glick D, **Jacobsohn E**, Mashour GA, Avidan MS. Intraoperative awareness risk, anesthetic sensitivity, and anesthetic management for patients with natural red hair: a matched cohort study. *Can J Anaesth.* Apr;62(4):345-55; 2015

Manji RA, Grocott HP, Manji JS, Menkis AH, **Jacobsohn E.** Recurrent Seizures Following Cardiac Surgery: Risk Factors and Outcomes in a Historical Cohort Study. *J Cardiothorac Vasc Anesth.* Mar EPUB; 2015

Whitlock EL, Rodebaugh TL, Hassett AL, Shanks AM, Kolarik E, Houghtby J, West HM, Burnside BA, Shumaker E, Villafranca A, Edwards WA, Levinson CA, Langer JK, Fernandez KC, El-Gabalawy R, Zhou EY, Sareen J, **Jacobsohn E**, Mashour GA, Avidan MS. Psychological sequelae of surgery in a prospective cohort of patients from three intraoperative awareness prevention trials. *Anesth Analg.* 2015 Jan;120(1):87-95; 2015.

Avidan MS, Fritz BA, Maybrier HR, Muench MR, Escallier KE, Chen Y, Ben Abdallah A, Veselis RA, Hudetz JA, Pagel PS, Noh G, Pryor K, Kaiser H, Arya VK, Pong R, **Jacobsohn E**, Grocott HP, Choi S, Downey RJ, Inouye SK, Mashour GA. The Prevention of Delirium and Complications Associated with Surgical Treatments (PODCAST) study: protocol for an international multicentre randomised controlled trial. *BMJ Open.* 2014 Sep 17;4(9):e005651.

Willingham M, Ben Abdallah A, Gradwohl S, Helsten D, Lin N, Villafranca A, **Jacobsohn E**, Avidan M, Kaiser H. Association between intraoperative electroencephalographic suppression and postoperative mortality. *Br J Anaesth.* 2014 May 22. pii: aeu105. [Epub ahead of print]

Rao S, Huverserian AR, Ben Abdallah A, Lees K, Willingham MD, Burnside BA, Villafranca AJ, Glick DB, **Jacobsohn E**, Avidan MS. Impact of right-handedness on anaesthetic sensitivity, intra-operative awareness and postoperative mortality. *Anaesthesia.* 2014 Aug;69(8):840-6.

Funk DJ, **Jacobsohn E**, Kumar A. The authors reply. *Crit Care Med.* 2013 Sep;41(9):e239. doi: 10.1097/CCM.0b013e318299576a. No abstract available.

Manji RA, **Jacobsohn E**, Grocott HP, Menkis AH. Longer in-hospital wait times do not result in worse outcomes for patients requiring urgent coronary artery bypass graft surgery. *Hosp Pract (1995)*. 2013 Aug;41(3):15-22.

Villafranca A, Thomson IA, Grocott HP, Avidan MS, Kahn S, **Jacobsohn E**. The impact of bispectral index versus end-tidal anesthetic concentration-guided anesthesia on time to tracheal extubation in fast-track cardiac surgery. *Anesth Analg*. 2013 Mar;116(3):541-8

Fritz BA, Rao P, Mashour GA, Abdallah AB, Burnside BA, **Jacobsohn E**, Zhang L, Avidan MS. Postoperative recovery with bispectral index versus anesthetic concentration-guided protocols. *Anesthesiology*. 2013 May;118(5):1113-22. doi: 10.1097/ALN.0b013e31828604ab.

Villafranca AJ, Arenson BG, Avidan MS, Glick D, Mashour GA, **Jacobsohn E**. Case report: Volitional delay of self-reported outcomes: insights from a case of intraoperative awareness with explicit recall. *Anesth Analg*. 2013 Feb;116(2):365-7. doi: 10.1213/ANE.0b013e3182771d3b. Epub 2013 Jan 9.

Funk DJ, **Jacobsohn E**, Kumar A. The role of venous return in critical illness and shock-part I: physiology. *Crit Care Med*. 2013 Jan;41(1):255-62.

Funk DJ, **Jacobsohn E**, Kumar A. Role of the venous return in critical illness and shock: part II- shock and mechanical ventilation. *Crit Care Med*. 2013 Feb;41(2):573-9. doi: 10.1097/CCM.0b013e31827bfc25. Review.

Aranake A, Gradwohl S, Ben-Abdallah A, Lin N, Shanks A, Helsten DL, Glick DB, **Jacobsohn E**, Villafranca AJ, Evers AS, Avidan MS, Mashour GA. Increased risk of intraoperative awareness in patients with a history of awareness. *Anesthesiology*. 2013 Dec;119(6):1275-83.

Aranake A, Gradwohl S, Ben-Abdallah A, Lin N, Shanks A, Helsten DL, Glick DB, **Jacobsohn E**, Villafranca AJ, Evers AS, Avidan MS, Mashour GA. Increased risk of intraoperative awareness in patients with a history of awareness. *Anesthesiology*. 2013 Dec;119(6):1275

Funk DJ, **Jacobsohn E**, Kumar A. The authors reply. *Crit Care Med*. 2013 Sep;41

Manji RA, **Jacobsohn E**, Grocott HP, Menkis AH. Longer in-hospital wait times do not result in worse outcomes for patients requiring urgent coronary artery bypass graft surgery. *Hosp Pract (1995)*. 2013 Aug;41(3):15-22

Villafranca A, Thomson IA, Grocott HP, Avidan MS, Kahn S, **Jacobsohn E**. The impact of bispectral index versus end-tidal anesthetic concentration-guided anesthesia on time to tracheal extubation in fast-track cardiac surgery. *Anesth Analg*. 2013 Mar;116(3):541-8

Fritz BA, Rao P, Mashour GA, Abdallah AB, Burnside BA, **Jacobsohn E**, Zhang L, Avidan MS. Postoperative recovery with bispectral index versus anesthetic concentration-guided protocols. *Anesthesiology*. 2013 May;118(5):1113-22.

Villafranca AJ, Arenson BG, Avidan MS, Glick D, Mashour GA, **Jacobsohn E**. Case report: Volitional delay of self-reported outcomes: insights from a case of intraoperative awareness with explicit recall. *Anesth Analg*. 2013 Feb;116(2):365-7. doi: 10.1213/ANE.0b013e3182771d3b. Epub 2013 Jan 9.

Funk DJ, **Jacobsohn E**, Kumar A. The role of venous return in critical illness and shock-part I: physiology. *Crit Care Med*. 2013 Jan;41(1):255-62. doi: 10.1097/CCM.0b013e3182772ab6.

Funk DJ, **Jacobsohn E**, Kumar A. Role of the venous return in critical illness and shock: part II-shock and mechanical ventilation. *Crit Care Med*. 2013 Feb;41(2):573-9. doi: 10.1097/CCM.0b013e31827bfc25. Review.

Perioperative right ventricular dysfunction. Denault AY, Haddad F, **Jacobsohn E**, Deschamps A. *Curr Opin Anaesthesiol*. 2013 Feb;26(1):71-81. doi: 10.1097/ACO.0b013e32835b8be2. Review.

Manji R, Menkis A, **Jacobsohn E**. Seizures after tranexamic acid use for cardiac surgery. *Can J Anesth* *Can J Anaesth*. 2012 Jan;59(1):6-13.

Whitlock EL, Villafranca AJ, Lin N, Palanca BJ, **Jacobsohn E**, Finkel KJ, Zhang L, Burnside BA, Kaiser HA, Evers AS, Avidan MS. Relationship between bispectral index values and volatile anesthetic concentrations during the maintenance phase of anesthesia in the B-Unaware trial. *Anesthesiology*. 2011 Dec;115(6):1209-18.

Avidan MS, **Jacobsohn E**, Palanca BJ, Glick D, Villafranca A, O'Connor M, Mashour GA; the BAG-RECALL Study Group. BIS monitoring versus end-tidal anesthetic gas monitoring to prevent awareness during anesthesia. *New Eng J of Medicine* 2011 Aug 18;365(7):591-600.

Avidan M, Hill L, Smith J, Skrupky L, **Jacobsohn E**, Meyers B. Desirudin as DVT prophylaxis after cardiothoracic surgery. *J Thromb. Hemostasis* 2011 Dec;128(6):524-9.

Strumpher J, **Jacobsohn E**. Perioperative management of the patient with pulmonary hypertension and right heart failure. *J Cardiothor Vasc Anesthesia* *J Cardiothorac Vasc Anesth*. 2011 Aug;25(4):687-704. Epub 2011 May 26. Review. May 2011

Kertai MD, Palanca BJ, Pal N, Burnside BA, et al and **B-Unaware Study Group**. *Anesthesiology*. 2011 Mar;114(3):545-56. Bispectral index monitoring, duration of bispectral index below 45, patient risk factors, and intermediate-term mortality after noncardiac surgery in the B-Unaware Trial.

Kertai MD, Pal N, Palanca BJ, Lin N, Searleman SA, Zhang L, Burnside BA, Finkel KJ, Avidan MS; **B-Unaware Study Group**. Association of perioperative risk factors and cumulative duration of low bispectral index with intermediate-term mortality after cardiac surgery in the B-Unaware Trial. *Anesthesiology*. 2010 May;112(5):1116-27.


Paunovic B, Manji RA, Arora R, Strumpher J, Sigal R, Zivot J, **Jacobsohn E**. Sepsis and Vasodilatory Shock in the Cardiac Surgical Patient. In: Sladen RN, ed. Postoperative Cardiac Care. A Society of Cardiovascular Anesthesiologists Monograph. Baltimore: Lippincott Williams & Wilkins, 2011:335-352.

Kertai MD, Pal N, Palanca BJ, Lin N, Searleman SA, Zhang L, Burnside BA, Finkel KJ, Avidan MS; **B-Unaware Study Group**. Association of perioperative risk factors and cumulative duration of low bispectral index with intermediate-term mortality after cardiac surgery in the B-Unaware Trial.

Avidan MS, Palanca BJ, Glick D, **Jacobsohn E**, Villafranca A, O'Connor M, Mashour GA; the BAG-RECALL Study Group. Protocol for the BAG-RECALL clinical trial: a prospective, multi-center, randomized, controlled trial to determine whether a bispectral index-guided protocol is superior to an anesthesia gas-guided protocol in reducing intraoperative awareness with explicit recall in high risk surgical patients. *BMC Anesthesiol*. 2009 Nov 30;9(1):8.

Prevalence of undiagnosed obstructive sleep apnea among adult surgical patients in an academic medical center. H Finkel KJ, Searleman AC, Tymkew H, Tanaka CY, Saager L, Safer-Zadeh E, Bottros M, Selvidge JA, **Jacobsohn E**, Pulley D, Duntley S, Becker C, Avidan MS. *Sleep Med*. 2009 Jan 29.

Saager L, Collins GL, Burnside B, Tymkew H, Zhang L, **Jacobsohn E**, Avidan M. A randomized study in diabetic patients undergoing cardiac surgery comparing computer-guided glucose management with a standard sliding scale protocol. *J Cardiothorac Vasc Anesth*. 2008 Jun;22(3):377-82. Epub 2007 Dec 3.

Avidan MS, Zhang L, Burnside BA, Finkel KJ, Searleman AC, Selvidge JA, Saager L, Turner MS, Rao S, Bottros M, Hantler C, **Jacobsohn E**, Evers AS. Anesthesia awareness and the bispectral index. *N Engl J Med*. 2008 Mar 13;358(11):1097-108 

Avidan MS, Ali SZ, Tymkew H, **Jacobsohn E**, De Wet CJ, Hill LL, Pasque M.H Mild hypercapnia after uncomplicated heart surgery is not associated with hemodynamic compromise. *J Cardiothorac Vasc Anesth*. 2007 Jun;21(3):371-4]

Fergusson DA, Hébert PC, Mazer CD, Frenes S, MacAdams C, Murkin JM, Teoh K, Duke PC, Arellano R, Blajchman MA, Bussièrès JS, Côté D, Karski J, Martineau R, Robblee JA, Rodger M, Wells G, Clinch J, Pretorius R; **BART Investigators**. A comparison of aprotinin and lysine analogues in high-risk cardiac surgery. *N Engl J Med*. 2008 May29;358(22):2319-31.

**Jacobsohn E, et al**. Case report: inferior vena-cava right atrial anastomotic stenosis after bicaval orthotopic heart transplantation. *Can J Anaesth*. 2006 Oct;53(10):1039-43

Niedhart DJ, Kaiser HA, **Jacobsohn E**, Hantler CB, Evers AS, Avidan MS. Inpatient reproducibility of the BISxp monitor. *Anesthesiology*. 2006 Feb;104(2):242-8.

Rosemeier F, DeWet C, **Jacobsohn E**. Severe acute tricuspid regurgitation following withdrawal of an entrapped PA Catheter. (*J Cardiothorac Vasc Anesth*. 2006 Dec;20(6):910-1

Niedhart, DJ, Kaiser H, Hantler C, **Jacobsohn E**, Avidan M. Intraoperative Reproducibility of the BISxp™ Monitor. *Anesthesiology* Feb 2006 104:242-248.

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DeWet, C., **Jacobsohn, E.:** Cardiac protective agents. In: Pharmacology in Anesthesia Practice, eds. Evers A, Mazze, M. Churchill Livingstone, 2004; pp 671-690.

Buchman, T., **Jacobsohn, E.:** Shock: physiology and management. In: Greenfield's Textbook of Surgery, ed. J.S. Lillemoe. Philadelphia, Saunders, 2002.

Lee, T., **Jacobsohn, E.:** Cardiac trauma. In: Issues in Cardiothoracic Anesthesia and Critical Care, ed. J. Arrowsmith. Philadelphia, Decker and Decker, 2001 (*in press*).

**Jacobsohn, E., Ellis, J., Wilke, H.:** Electrocardiographic monitoring. In: Cardiac, Vascular and Thoracic Anesthesia, eds. C. Lake, M. Roizen M, J. Younberg, J., pp.124-153. Columbia MD, 2000.

**Jacobsohn E, Aronson S, O'Connor M.** Respiratory Monitoring. International Anaesthesiology Clinics 1996;34(3):1-36

**Jacobsohn E, Ellis J, Wilke H.** Electrocardiographic monitoring. IN Lake C, Roizen M, Younberg J. Cardiac, Vascular and Thoracic Anesthesia. Bermedica, Columbia, MD

**Jacobsohn E.** Isoproterenol.. IN Roizen M, Fleischer L. The Essence of Anesthesia. Saunders, Philadelphia PA, 1996

**Jacobsohn E.** Lithium. IN Roizen M, Fleischer L. The Essence of Anesthesia. WB Saunders, Philadelphia PA, 1996

**Jacobsohn E.** Epinephrine. IN Roizen M, Fleischer L. The Essence of Anesthesia. WB Saunders, Philadelphia, 1996

**Jacobsohn E.** Ephedrine. IN Roizen M, Fleischer L. The Essence of Anesthesia. WB Saunders, Philadelphia PA, 1996



**Jacobsohn E**, Aronson S. Minimal access coronary artery bypass surgery. IN Bready L, Smith RB: Decision Making in Anaesthesiology. Decker and Decker, Philadelphia PA, 1997

De Wet C, Harrison L, **Jacobsohn E**. Air Embolism. IN Attlee J. Complications in Anesthesia. WB Saunders, Philadelphia PA, 1997

**Jacobsohn E**. Anesthesia for Minimally Invasive Cardiac Surgery. IN: New Developments in Cardiac Surgery. WB Saunders, Philadelphia PA, 1999

Duke PC, **Jacobsohn E**: Diagnostic criteria for perioperative myocardial infraction. Anaesthesiology Clinics 1991;;9(3):699-723

### **VISITING PROFESSORSHIPS**

Postgraduate Institute of Medical Institute for Research. Chandigarh, India, January 2015

UWO, London Ontario, October 2014.

University of Calgary, Department of Anesthesia, September 2014

University of Dunedin, New Zealand. July 2013

Montreal heart Institute, Montreal, Canada, May 2011; The principles of fast-track cardiac anesthesia and facilitated recovery.

University of British Columbia, Vancouver, November 2010. Royal Columbian Hospital and Vancouver general Hospital. 1. Pulmonary hypertension in the perioperative period. 2. Management of perioperative shock.

Changchun Peoples Provincial Hospital, Changchun, China, October 2010. The use of awareness monitoring in the OR.

Postgraduate Institute for Medical Education and Research, Chandigarh, India. October 2009

Jilin Province People's Hospital, Changchun, PR China, May 2009

University of Cape Town Medical Alumni Meeting, Dec 2009. Cape Town, South Africa

University Hospital, Shanghai, P. R.China (April 2007): Perioperative Shock: Diagnosis and Management

University of Beijing Medical School, P.R. China; Perioperative management of HIT: What all Anesthesiologists should know.

University of Porto, Portugal. Perioperative Management of Patients with Sleep Apnea. (April 2006).

University of Chicago Medical School, Chicago, IL Strategies to reduce cardiac injury in patients with coronary artery disease. (University of Chicago, April 2005).

Northwestern University, Chicago, IL. Cardiac protection and volatile anesthetic agents (April 2005)

SUNY, Stony Brook, NY. Perioperative Cardiac Protection: Options for the Anesthesiologist (May 2005)

Loyola University, Section of Pulmonary and Critical Care Medicine, Chicago, IL. Pulmonary Artery Vasodilators. Feb 2004

University of New Mexico, Albuquerque, New Mexico, Feb 2004. 1) Regional Anesthesia techniques for cardiac Surgery 2). Cardiac Protective Strategies: What's New in 2004

University of Virginia, Richmond, Virginia. Nov 2003. 1) Anesthesia for patients with CAD: What is new in 2003; 2) Natriuretic peptide physiology: An overview

Rush Presbyterian Medical School, October 2002. 1) Pathophysiology of Shock, 2) RV failure 3) New paradigms of care after cardiac surgery

Invited to Madras University Hospital to for 2 weeks to teach "Current management styles in cardiac surgery: January, 2004.

Rio de Janeiro Society of Anesthesiology and the Laranjeiros Hospital Department of Cardiothoracic Anesthesiology, February 2002. Lectures: Pathophysiology of shock; cardiac Fasttrack anesthesia; Regional anesthesia for cardiac surgery

Loyola University Department of Anesthesiology, Chicago IL. Is ICU needed after routine cardiac surgery? May 2001

University of California at San Diego. February 2001. Grand rounds: Facilitated Recovery: Is ICU needed after cardiac surgery? Journal Club: Are there molecular reasons to avoid high-dose narcotics in cardiac surgery?

University of Chicago, Chicago, IL. Department of Anesthesia and Critical Care. 11 May 1999. Facilitated Recovery: Is ICU needed after cardiac surgery?

University of Southern California. Grand Rounds: New paradigms of care after cardiac surgery. November 2000.

University of British Columbia and Royal Columbian Hospitals, Departments of Anesthesia, Vancouver, BC. March 1999. Lecture topics: 1) Is ICU needed after cardiac surgery? 2) New Developments management of heart disease: what the Anesthesiologist should know".

University of British Columbia, Section of Critical Care Medicine. March 1999. A systematic approach to the physiology and pathophysiology of shock

University of Chicago, Chicago, IL. Is ICU needed for routine vascular and Cardiac Surgery.  
Invited for December 1998

Duke University Medical Centre, Durham NC. Can ICU be safely bypassed after Cardiac  
Surgery. December 11, 1998

**INVITED LECTURES/NAMED LECTURES/WORKSHOPS/SEMINARS**

New Zealand Society of Anesthesiology, Annual Meeting, 2017: Invited as plenary speaker:  
Professionalism in the Operating Room

The Postgraduate Institute for Medical Education and Research, Chandigarh, India: Feb 2016:  
Using TEE to assess the right heart.

ASA (American Society of Anesthesiology) Refresher Course Lecture, 2015. San Diego.  
Management of the patient with pulmonary hypertension and RV failure. A true perioperative  
challenge.

Institutional Grand Rounds: The Postgraduate Institute for Medical Education and Research,  
India: Enhancing a culture of safety through collaboration and professionalism: Chandigarh,  
India, Feb 2015.

Society of Cardiovascular Anesthesiologists, 2015. Washington DC. Managing the right heart:  
getting the PA pressure right.

ASA Refresher Course, 2014. Management of the patient with pulmonary hypertension  
undergoing non-cardiac surgery.

Invited Plenary lecture. New Zealand Society of Anaesthesiology. Dunedin, 2013. What  
constitutes a “good” academic anaesthesiologist.

Invited Plenary lecture. New Zealand Society of Anaesthesiology. Dunedin, 2013. Perioperative  
hemodynamic management.

Invited Refresher course lecturer, ASA, San Francisco, Oct 2013. Caring for the patient with  
pulmonary hypertension.

Problem based learning lecture. New Zealand Society of Anaesthesiology. Dunedin, 2013.  
Perioperative hemodynamic management. Perioperative shock. All is not what it appears to be!

UBC Whistler Anaesthesiology Summit. Invited lecturer. Lectures; periop pulm hypertension, 2)  
perioperative delirium; 3) Case discussions: Two unusual cases of shock i9n the periop period.

Invited Refresher course lecturer, ASA, Washington DC, Oct 2012. Caring for the patient with  
pulmonary hypertension.

CAS Lecture: Pulmonary Hypertension in Periop period, July 2012, Quebec City.

CAS lecture. Hemorrhagic shock. Hemodynamic management. Quebec City, July 2012.

The Royal College Lecture, May 2011. Montreal Heart Institute. Fast track recovery and heart surgery: Outcomes and resource use. The 10+ year Manitoba Experience

American Society of Anesthesiology. RV failure in the perioperative period. October 2011

ECMO and H1N1: The Winnipeg Experience. Society of cardiovascular Anesthesia, Savannah, Georgia, May 2011

Perioperative management of patients with pulmonary hypertension, ASA 2009

CAS Annual Meeting Refresher Course. Pulmonary hypertension in the perioperative period. CAS Annual Meeting, Montreal, 2010.

CAS Annual Meeting critical care Seminar. Use of vasopressin and steroids in ICU. CAS Annual Meeting, Montreal, 2010.

Perioperative HITT: Canadian Anaesthesiology Society Meeting, Vancouver 2009

Use of vasopressin and steroids in vasodilated shock. Current status. Society of Cardiovascular Anesthesia Meeting, San Antonio, 2009

HITT and the Anaesthesiologist. Duke CME Anaesthesia Meeting, Costa Rica, 2009 and US Virgin Islands, Jan 2010

Perioperative diagnosis and management of shock. Kansas City Society of Anesthesiology, 2009

To BE-AWARE or to BE-UNAWARE. Kansas City Society of Anaesthesiology, 2009

RV failure and pulmonary hypertension. ASA Meeting, Orlando, FL 200

RV failure and pulmonary hypertension. What anesthesiologists should know. Canadian Anesthesiologists Society Meeting, Halifax Nova Scotia, 2008.

Mechanical Circulatory Assist Devices. State of the Art. World Congress of Anesthesiology, Cape Town, South Africa, 2008

RV failure and pulmonary hypertension. Duke CME Anesthesia Meeting, St Thomas, US Virgin Islands, 2008.

HITT and the Anesthesiologist. Duke CME Anesthesia Meeting, St Thomas, US Virgin Islands, 2008.

Perioperative diagnosis and management of shock. Duke CME Anesthesia Meeting, St Thomas,

US Virgin Islands, 2008.

How to set up and manage a cardiothoracic ICU: Chinese Society of Critical Care medicine, Chengdu, China, May 2007

Shock: management and Diagnosis. Shanghai Society of Anesthesiology. Shanghai, China, May 2007.

Perioperative Management of RV failure: International Society of Cardiothoracic Critical Care. Washington, DC, March 2007.

Heparin-Induced Thrombocytopenia: What all Anesthesiologists should know. Missouri Society of Anesthesiologists, Kansas City, Missouri, Apr 2007.

Perioperative Cardiac Protection: From Pre-Op Clinic to Post-Op Management, Alabama State Society of Anesthesiologists Annual Conference, Birmingham, Alabama March 2007.

Fluid and Transfusion management: Alabama State Society of Anesthesiologists Annual Conference, Birmingham, Alabama March 2007.

Perioperative Cardiac Protection: From Pre-Op Clinic to Post-Op Management, Illinois Society of Anesthesiologist, Midwest Anesthesiology Conference, Chicago, Illinois May 21, 2006.

Perioperative Management of Patients with Coronary Artery Disease, Aultman Hospital, Akron Ohio, May 9, 2006.

Sepsis in CTS Patients: Prevention and Management Perspectives, Cardiothoracic Surgical (CTS) Critical Care, 2006, Washington D.C, April 29, 2006

Perioperative Management of Patients with Coronary Artery Disease, St. Barnabas Medical Center, Livingston, New Jersey, February, 2006.

Perioperative Management of Patients with Coronary Artery Disease, Kansas City Society of Osteopathic Anesthesiologists, January, 2006.

A Clinical Comparison of Modern Inhaled Anesthetics, Christian Hospital Northeast, Department of Cardiovascular Anesthesiology, January, 2006.

Perioperative Management of Patients with Coronary Artery Disease. Memphis Society of Anesthesiology. August 2005

Midwest Society of Anesthesiologists Annual Meeting, Chicago, Il. Perioperative Fluid Therapy: What's New in 2005 (May 2005, Chicago, Il)

New developments in treatment of sepsis and septic shock in the ICU. American Association of Thoracic Surgeons International Meeting, Toronto, April 2004.

Perioperative management of patients undergoing cardiac transplantation. Indian Society of

Cardiothoracic Anesthesiology, Chennai India, May 2004

New perioperative paradigms of care for patients with coronary artery disease. Des Peres Hospital, St. Louis, Missouri, 2003.

Role of inhaled anesthetics in modern anesthetic practice. Missouri Society of Anesthesiologists, 2003.

Cardiac protection and inhaled anesthetics. UCLA Medical School, 2003.

Cardiac protection and inhaled anesthetics. Porter Adventist Hospital, Department of Anesthesiology, Denver, Colorado, 2003.

The role of BNP in cardiac surgery. Cardiothoracic Surgery Meeting , Las Vegas, Nevada, 2003.

The role of BNP in cardiothoracic critical care. Cardiothoracic Surgery meeting, Dallas Texas, 2003.

Sepsis: New bacterial strategies. St. Mary's Hospital Residency Program, St. Louis, Missouri, 2003.

Sepsis: New bacterial strategies. Division of CT Surgery Grand Rounds, 2003.

New management strategies after cardiac surgery and in intensive care. Washington State Society of Anesthesiology, March 2002.

Regional anesthesia and cardiac surgery: New management strategies after cardiac surgery and in intensive care. Washington State Society of Anesthesiology, March 2002.

Sepsis: Pathophysiology and New Treatment Strategies. Barnes Jewish Hospital/Washington University Department of Emergency Medicine Grand Rounds, St Louis, Missouri, March 2002

Sepsis: Pathophysiology and New Treatment Strategies. St Mary's Hospital Grand rounds, St Louis, Missouri

Sepsis: Pathophysiology and New Treatment Strategies. DePaul Hospital Grand Rounds, St Louis, Missouri, October 2001

Sepsis: Pathophysiology and New Treatment Strategies. Hospital Grand Rounds, St Louis, Missouri, December 2001

Sepsis: Pathophysiology and New Treatment Strategies. St Anthony's Hospital Grand Rounds, St Louis, Missouri

Early extubation after cardiac surgery. Indiana Society of Anesthesiology, Fort Wayne Section, Fort Wayne, Indiana, Sept 2001

New paradigms of care after cardiac surgery. South Bend Anesthesiology Associates, South

Bend Indiana, January 2002.

Early extubation after cardiac surgery. Grand Rounds, Section of Cardiac Surgery and Cardiac Anesthesia. DuPage Hospital, Chicago, Illinois, September 2001

Early extubation after cardiac surgery. For Baxter Corporation Speakers Bureau, Chicago, Illinois, May 2000.

Shock; A physiological approach. To be delivered at the University of Chicago Anesthesia Review Course, US Virgin Islands, Feb 1999

Clinical pathways for cardiac surgery: What they can do for your patients and your hospital: To be delivered at the University of Chicago Anesthesia Review Course, US Virgin Islands, Feb 1999

Facilitated recovery after cardiac surgery. Cardiac Surgery Associates, Jefferson City, MI. September 1999

Early extubation cardiac surgery and improved resource utilisation after cardiac surgery. DuPont Health Care Consortium, DuPont, Pennsylvania. August 1999

Facilitated Recovery for Cardiac Surgery. Unity Health Care Systems, St Louis, MI; August 1999

A new paradigm for cardiac surgery: Facilitated Recovery and Bypassing Intensive Care. Christ Hospital, Department of Anesthesiology, Chicago, IL; May 1999-08-26

New Developments in Perioperative Fluid Management and Transfusion Therapy, American Society of Anesthesiology Refresher Course Lecture, Atlanta, Georgia, October 2005.

Cardiopulmonary and Metabolic Challenges in Morbidly Obese Patients. American Society of Anesthesiology Conference: Clinical Forum, Atlanta, Georgia, October 2005.

Perioperative Fluid Management. American Society of Anesthesiology Refresher Course Lecture, Las Vegas Nevada, October 2004.

Selective pulmonary artery vasodilator therapy after cardiac surgery. The Society of Cardiovascular Anesthesia Annual Meeting, Honalulu, Hawaii, April 2004

Analgesia after cardiac surgery: The role of regional anesthetic techniques. The Society of Cardiovascular Anesthesia Annual Meeting, Honalulu, Hawaii, April 2004

Sepsis: An update for ICU management. The American Association of Thoracic Surgeons Annual Meeting, Toronto, ON, April 2004

The postoperative and intensive care management of patients after cardiac transplantation. The Society of Critical Care Medicine Annual Meeting, Orlando, FL (Feb 2004)

Use of regional anesthesia techniques. Society of Cardiovascular Anesthesia, 2003

Natriuretic peptide physiology in heart failure and uses in cardiothoracic **ICU**. American Society of Anesthesiology Annual Meeting, and the American Society of Critical Care Anesthesiologists, San Francisco, October 2003.

Difficult patient management problems in ICU. American Society of Anesthesiology, and the American Society of Critical Care Anesthesiologists, San Francisco, October 2003.

New anticoagulants in the ICU. ASA Meeting, Orlando, Florida, October, 2002.

Shock in the ICU: How to assess it using echocardiography. ASA meeting, Orlando, Florida, October, 2002.

Regional anesthesia for cardiac surgery. Lecture: Presented at the Society of Cardiovascular Anesthesia Meeting, Vancouver, British Columbia, Canada, June 2001

Regional anesthesia for cardiac surgery. To be presented at the 7<sup>th</sup> Annual Current Topics in Cardiothoracic Anesthesia. Washington University School of Medicine, St Louis, MO, September 2000

Fasttrack cardiac surgery: what do we know of the benefits and risks, and can we predict who will do well? To be delivered as a refresher Course Lecture at the Society of Cardiovascular Anesthesiologist's Meeting, Orlando FL, May 2000

Perioperative management after minimally invasive heart surgery. To be presented at the 7<sup>th</sup> Annual Current Topics in Cardiothoracic Surgery. Washington University School of Medicine, St Louis, MO, September 2000-09-14

New paradigms of care after cardiac surgery. Presented at the International Meeting of the Society of Cardiovascular Anesthesia, Quebec City, Quebec

Routine admission to ICU is not required after cardiac surgery. IARS, Los Angeles CA, March 1999

Routine admission to ICU is not required after cardiac surgery. Society for Cardiovascular Anesthesia, Chicago, IL, April 1999

New developments in the perioperative critical care management of cardiac and vascular surgery patients. The University of Chicago Department of Anesthesia and Critical Care Review Course, Chicago, IL. December 1998

A cross-national comparison of oral examination scores between Canada and America: A prospective, blinded study (Presented at the Royal College of Physicians and Surgeons of Canada Meeting, 1998)

How good are residents at self-assessment of their performance. The 1998 Conjoint Conference on Medical Education, RCPSC and the College of Family Physicians, Toronto



Anesthesia Education, Training and Manpower. Anesthesia in the New Millennium, The University of Chicago Anesthesia Conference, Chicago, IL, 1996

Critical Pathways in Medicine: What have we learnt from our radical retropublic prostatectomy pathway. Anesthesia in the New Millennium, The University of Chicago Anesthesia Conference, Chicago, IL, 1996

Emergency Airway Management: Using the LMA as a conduit for intubation. International Anaesthesia Research Society Meeting, San Francisco, CA, March 1997

New Developments in Cardiac Surgery. Minimally Invasive Cardiac Surgery, Heartport and Facilitated Recovery: Many ways to revascularize the heart. The University of Chicago Department of Anesthesia and Critical Care: Anesthesia in New Millennium, Chicago, IL, Dec 1997

New Developments in management of acute pain: Regional anesthesia and cardiac surgery. The University of Chicago Department of Anesthesia and Critical Care: Anesthesia in New Millennium, Chicago, IL, December 1997

New Developments in Acute and Chronic Pain Therapy: The role of spinal and epidural anesthesia in cardiac surgery (December,1997). The University of Chicago Department of Anesthesia and Critical Care Review Course, Chicago, IL, 1997

Nitric Oxide Therapy in Critical Care. The Manitoba Association of Respiratory Therapists. May 1998

What is new in mechanical ventilation. The University of Chicago Department of Anesthesia and critical Care Review Course, Chicago, IL. Scheduled December 1998

### **BOOK REVIEWS**

Oxford Textbook of Critical Care Medicine. 1<sup>st</sup> Edition. Review for the Canadian Journal of Anesthesia 1999

Smith B, Barry M. Ophthalmic Anesthesia: A Practical Handbook, 2nd edition. Oxford University Press, New York, NY, 1996. Doody Health Science Journal 1996;4 (3):157

Gallagher TJ. Postoperative Care of the Critically Ill Patient. Williams and Wilkins, Media, PA, 1996. Doody's Annual of Reviews, 1996

Lake C, Rice R, Sperry R. Advances in Anesthesia. Mosby, Philadelphia, Pa, 1996. Doody's Annual of Reviews, 1996

Hood D, Dewan D. Practical Obstetric Anesthesia. WB Saunders, 1996. Doody's Annual of Reviews, 1996

Brown M, Brown E. Comprehensive Postanesthesia Care. Williams and Wilkins, Baltimore,

MD, 1997. Doody's Annual of Reviews, 1997

Smith B, Barry M. Ophthalmic Anesthesia: A Practical Handbook, 2nd edition. Oxford University Press, New York, NY, 1996. Doody Health Science Journal 1996;4 (3):157

Gallagher TJ. Postoperative Care of the Critically Ill Patient. Williams and Wilkins, Media, PA, 1996. Doody's Annual of Reviews, CD-ROM 1996

Hanowell L, Waldron R. Airway Management. Lippincott-Raven, Philadelphia, PA, 1996. Doody Health Science Journal 1996;4 (3):157

Brown M, Brown E. Comprehensive Postanesthesia Care. Williams and Wilkins, Baltimore, MD, 1997. Doody Health Science Journal, 1997

Martin D, Warner M. Positioning in Anesthesia and Surgery. 3rd edition. WB Saunders, Philadelphia, PA, 1996. Doody Health Science Journal, 1997

Latto E. Difficulties in tracheal intubation. 2nd edition. WB Saunders, 1997. Doody Health Science Journal, 1997

Chung D, Lam A. Essentials of Anaesthesiology. 3rd edition. WB Saunders, 1997. Doody Health Science Journal, 1997

Eggers K, Everatt J, Arthurs G. The Anesthesia OSCE. Greenwich Medical, London, UK, 1997. Doody Health Science Journal, 1997

Calvey TN, Williams NE. Principles and Practice of Pharmacology for Anaesthetists. Blackwell Science Ltd, Oxford, UK, 1997. 3rd edition. Doody Health Science Journal, 1997

### **CURRENT ACTIVE RESEARCH PROTOCOLS:**

Local PI: ENGAES: Encephalographic guided Anesthesia to prevent adverse outcomes after surgery: NIH funded (to Dr Avidan PI, St Louis): UM is the only current international collaborating center with Washington University in St Louis: Recruitment starting in September 2015, planned 2-year recruitment of 300 patients.

PI and study lead: Effect of Perioperative Behaviors on Choice of CARMS Specialty: Study of all graduating medical students 2014. Launched, \$20,000K AOC, funded \$20,000 Department of Anesthesia

PI and international study lead: International Multicentre Study on Practitioner Behaviours in the Perioperative Period (NEBOR study): Prevalence, Consequences, Behavioural Responses. 2013-2015: completed in Canada, USA, New Zealand and Australia.

A founding member of POCAS, a 5 nation, multicenter trial to investigate the effect of ketamine to reduce incidence of perioperative delirium. (Canada, USA, Korea, India, Denmark).

IRB approval done. Start-up within weeks. (AOC grant funded). Study commences in April 2014, recruitment will be completed in August 2015.

Co-PI with Dr Manji. Thrombocytopenia in cardiac ICU: Fondaparinux vs. LMWH. Funded by Department of Anesthesia (AOC Grant)

Co-PI with Dr Rakesh Arora. Delirium in cardiac surgical patients. St Boniface Hospital.

PI in collaboration with Dr Jitender Sareen, Department of Psychiatry, University of Manitoba; University of Michigan; University of Chicago and Washington University in St Louis.

Winnipeg site of international multicenter trial: Pysc-SOS: The effect of surgery and anesthesia on psychological functioning.

PI StBoniface site on International POISE II trial for study of ischemia. Effect of aspirin and clonidine on outcome.

PI Early extubation after cardiac surgery: Effect of EEG monitoring.

Co-PI with Dr Rizwan Manji, Manitoba Cardiac Sciences Program. TXA and seizures after cardiac surgery.

CO-PI withDr Rizwan Manji; Comparison of fondaparinux and s/c heparin on incidence of HIT antibodies after cardiac surgery.

Co –investigator: A prospective, randomized study comparing femoral nerve catheter to intra-articular infusion of bupivacaine after total knee replacement surgery. (\$20000, University of Manitoba Research Foundation)

Co-investigator: A Randomized, double blinded of HES 130/0.4 vs. crystalloid in patients undergoing cardiac surgery. (University of Manitoba Anaesthesiology Research Fund.

### **PAST RESECH PROTOCLS AND MULTICENTER STUDY PARTICIPATION.**

PI: Early Extubation after Cardiac Surgery: Does BIS make a difference: A Prospective, Randomized, “blinded” Study (Funding, \$40000, University of Manitoba)

Co-investigator. International Multicenter Trial of Intraoperative Awareness. The BAGRECALL study. FAER and University of Manitoba funded. Only Canadian site.

PI: Prospective evaluation of the incidence of OSA in surgical patients presenting for surgery in a large hospital system in Canada.

PI: A multimodal approach of pain control for thoracic surgery: intrathecal morphine plus oral NSAIDS, gabapentin and acetaminophen vs. thoracic epidural anesthesia in post-thoracotomy pain. A randomized, controlled study.

CoPI: Perioperative Obstructive Sleep Apnea: How extensive is the problem among surgical patients at BJH. (BJH Foundation Grant, Department of Anaesthesiology Foundation Grant, Total Grant Support \$250000)

Co PI: Investigator. Desirudin and DVT Prophylaxis in Cardiothoracic Surgical Patients. (BJH Foundation Grant, \$90000)

Co-PI: Prospective study on intraoperative awareness: The role of processed EEG monitoring (BJH Foundation, \$125000)

Co-PI: Prospective Randomized study for intensive blood glucose control with EndoTool Glucose Management System. (BJH Innovation Grant, \$150,000)

PI: Blood transfusion practice in the Cardiothoracic ICU: A retrospective study

PI: Implementing a blood transfusion protocol in the CT ICU: Effect on transfusion practice

PI: Family satisfaction in the Cardiothoracic Intensive Care Unit.

Co-PI: A Randomized, double-blind, placebo-controlled trial of prophylactic heparin in patients with severe sepsis and higher disease severity who are undergoing treatment with drotrecogin alfa (F1K-MC-EVBR)

Co-PI: The role of Inhaled nitric oxide in patients with elevated pulmonary artery pressures, poor oxygenation, reperfusion injury and/or right ventricular failure

Co-PI: Gene and protein expression in ventilator-associated pneumonia (VAP)

Co-PI: A phase 3, open-label, non comparative study of Tigecycline for the treatment of subjects with selected serious infections due to resistant gram-negative organisms such as *Enterobacter* species, *Acinetobacter baumannii*, and *klebsiella pneumoniae*

Co-PI: Phase 3, multicenter, double-blind, randomized (3:1) study evaluating tigecycline and linezolid for the treatment of selected serious infections in subjects with vancomycin-resistant *Enterococcus* and evaluating tigecycline and vancomycin for the treatment

Co-PI: A randomized, double-blind, placebo controlled study to determine the efficacy and safety of epoetin alfa in critically ill subjects (EPO-ICU-002), 2005

Co-PI: Use of Recombinant Human Erythropoietin (rHuEpo, Procrit) in Cardiothoracic Surgery Patients to Reduce Post-Operative Blood Transfusions (HSC 02-1053)

Co-PI. A pilot, multicenter, randomized double blind, placebo-controlled study to evaluate nesiritide infusion, initiated post-induction of anesthesia in the management of CABG patients requiring cardiopulmonary bypass. Sponsored trial. PR# AO14, 2005

CoPrincipal Investigator, Phase II: Safety and Efficacy of Hemolink in subjects undergoing high-volume blood loss after orthopedic surgery. *Hemosol Inc.*, 2003

CoPrincipal Investigator, Phase IV: Efficacy of activated protein C in adult patients with early stage severe sepsis, *Eli Lilly, Inc.* 2003,

CoPrincipal Investigator Phase III: Study of efficacy of silver-coated endotracheal tube in reducing ventilator associated pneumonia. *Bard Medical*, 2003.

CoPrincipal Investigator, Phase I-Iia: Study of safety and efficacy of Nox-100 for treatment of shock due to sepsis, 2003, *Medinax Inc.*

Principal Investigator, Phase III study of safety and efficacy of Hemalink in primary coronary artery bypass graft surgery. *Hemosol*, 2001- present

Principal Investigator, Health Science Center, Winnipeg, Manitoba. Multicenter Study of 546C88 (NOS inhibitor) in septic shock. *Glaxo-Wellcome*.

Principal Investigator, Winnipeg Health Sciences Center. Multicenter Study of Activated Protein C in Septic Shock (PROWESS Study). *Eli-Lily*, 1998-2000

Principal Investigator, Winnipeg Health Sciences Center. Multicenter study of surfactant-associated protein B in ARDS. *Chiron Pharmaceuticals*, 1999

Principal Investigator, Winnipeg Health Science Center. Multicentre study of a neutrophil elastase inhibitor in ARDS. *Zeneca Pharmaceuticals*, 1999-2000

Phase III study of dexmedetomidine for sedation after cardiac surgery, Winnipeg Health Science Centre. *Abbott*, 1999

Principal Investigator, Plasma silver levels in patients having a silver coated central venous catheters. *Baxter*, 1998.

## **GRANTS**

Academic Oversight Committee, Department of Anesthesia: ENGAGES Study: Using EEG to guide anesthesia administration: Effect on delirium. 10,000. Dr Jacobsohn

Research consent form templates: linguistic and language characteristics: 10,000. Academic Oversight Committee, Department of Anesthesia. Research consent form templates: linguistic and language characteristics: 10,000. Co-PI with Dr Rajamohan, Mr Villafranca.

Academic Oversight Committee, Department of Anesthesia. \$10000, PI. Behaviours in the perioperative setting. An international perspective.

Academic Oversight Committee, Department of Anaesthesia. \$10000, PI. Behaviours in the perioperative setting. A Canadian investigation.

Academic Oversight Committee, Department of Anaesthesia. \$10000, co-PI with Dr Rizwan Manii. HITT is cardiac ICU patients.

Barnes Jewish Hospital Foundation Grant for the study of the Endotool™ to facilitate tight perioperative control of glucose. (PI, \$150,000). 2005

Barnes Jewish Hospital Foundation Grant for the study of the intraoperative awareness (Co-investigator, PI M. Avidan, \$90,000). 2005

Barnes Jewish Hospital Foundation Grant for the study of inhaled prostacyclin (PI, \$100,000). 2002

Washington University Anesthesiology Clinical Research Unit Grant (PI, \$27,000/1year). 2001  
Health Sciences Centre Research Foundation, Winnipeg, Manitoba. (PI, \$41,200). 1999  
Manitoba Health Services Commission Grant for Advancement of Clinical Practice (PI, \$22,000). 1999

Society of Cardiovascular Anesthesia Mid-career Grant (PI, \$20,000/year US for 2 years). 1999  
Health Sciences Centre Foundation Grant, Winnipeg, Manitoba (PI, \$20,000). 1999  
Royal College of Physicians and Surgeons of Canada Grant for the Study of Medical Education 1995-1997 (PI, \$40,000)

### **RESIDENTS/FELLOWS/STUDENTS/TECHNICIANS MENTORED FOR RESEARCH**

*Tyler Denisuk. Summer 2014*

*Moravriud Kavosh;2014- present: Research assistant/student, ENGAGES Team*

*Divya Parveen: 2014-2015, Research assistant on my team*

*Stefanie Enns. Summer student, 2013, 2014.*

*Alexander Thomson. Summer student 2011, 2012, 2013.*

*Alex Villafranca MSc, PhD candidate. Research Associate. 2008-present. I work with and mentor Mr Villafranca. In collaboration, we design and execute studies in perioperative medicine, ICI, and post-cardiac surgical outcomes.*

*Sadia Kahn MD. Research technician. 2009-2010.*

*Alec Thomson, Summer Student 2011. BAGRECALL database project. Cross national comparison of patients having cardiac surgery in the USA and Canada: Demographics and Outcomes.*

*Rob Pryce. Master's student, summer research experience/employ. Summer 2009. BAGRECALL Study.*

*Alec Thomson. Summer student 2009. Early extubation and EEG monitoring for cardiac surgery. Summer 2010*

*Peter Benoit. Summer student 2009. BAGRECALL Study and early extubation after cardiac surgery.*

*Alec Thomson. Summer student 2009. Early extubation and EEG monitoring for cardiac surgery.*

*Renatra Singh MD. University of Manitoba. Anesthesiologist's Knowledge of Mechanical Ventilation. A survey questionnaire.*

*Susan MacDonald MD, and Dr Seema Deshpande MD, Fellows in Cardiothoracic Anesthesiology, Washington University, St Louis. A collaborative project with the Virginia Mason Clinic in Seattle to study the effect of a new anesthetic technique (parasternal block,, developed in Winnipeg, Manitoba) in providing analgesia to patients undergoing early extubation after cardiac anesthesia. The project has been successful completed, abstract have been presented and the manuscript is in review. Dr MacDonald is now a cardiac anesthesiologist at the Virginia Mason Clinic, Seattle, WA. Dr Deshpande is CT Anesthesiologist at Washington University, St Louis, MO.*

*Trevor Lee MD. Anesthesiology resident, Winnipeg, Manitoba. In the Winnipeg Health Sciences Cardiac Operating rooms, we completed a unique project in Winnipeg, in collaboration with Duke University and the CT Surgeons at the HSC, examining a novel anesthetic technique, i.e. total spinal anesthesia in patients having cardiac surgery. We secured significant funding from local sources in Winnipeg (see grants), as well as external funding (see grants). This project was presented at international meetings in abstract form, and the findings have recently been published in the prestigious journal Anesthesiology. Dr Lee has subsequently completed advanced CT Anesthesiology training in England and Toronto, and has returned to Winnipeg as cardiac anesthesiologist.*

*Lorraine Stanko MD. Anesthesiology resident, Winnipeg, Manitoba. In the medical and surgical ICUs at the Winnipeg Health Sciences Center, we completed a study examining the utility of echocardiography in ICU. We collaborated with the department of cardiology at the HSC. The project was presented in abstract form at an international meeting. Manuscript is currently in its 2nd review. Dr Stanko is an anesthesiologist in Winnipeg.*

*Andrew Sawka MD. Anesthesiology resident, Winnipeg, Manitoba. In the Medical ICU at the Health Sciences Center, in collaboration with the Department of Radiology, we did a project on the cost effectiveness of routine ICU XR interpretation by radiologists. It was presented in abstract form at a Canadian meeting.*

*Paul Syslak MD. Anesthesiology resident, Winnipeg, Manitoba. At the Health Science Center, we did a study examining the utility of spinal morphine for analgesia in early extubation cardiac surgery. The abstract was presented at the Canadian Association of Anesthesiologists. A manuscript has recently been submitted.*