# CURRICULUM VITAE MICHAEL ERIK JESSEN, MD

#### PERSONAL DATA

Date of Birth: May 26, 1958
Place of Birth: Melita, Canada

Citizenship: United States of America

Family: Spouse: Patti Robyn Jessen (nee Donaldson)

Children: Robert Michael Jessen (born 8/23/99)

Nicholas Paul Jessen (born 1/24/02)

Home Address: 5077 Brandywine Lane

Frisco, Texas 75034

214-407-6883

Work Address: Department of Cardiovascular and Thoracic Surgery

University of Texas Southwestern Medical Center at Dallas

5323 Harry Hines Blvd. Dallas TX 75390-8879

214-645-7721

FAX: 214-645-7701

E-mail: michael.jessen@utsouthwestern.edu

#### PRESENT POSITION

Professor and Chairman, and

Frank M. Ryburn, Jr. Distinguished Chair in Cardiothoracic Surgery and Transplantation Department of Cardiovascular and Thoracic Surgery University of Texas Southwestern Medical Center 2010 - present

Chief, Cardiothoracic Surgery
Dallas Veterans Affairs Medical Center
4500 South Lancaster Blvd
Dallas, TX 75216
1992 - present

Faculty Member
Biomedical Engineering, Division of Applied Science
University of Texas Southwestern Graduate School of Biomedical Sciences
1992 - present

Program Director Residency Program in Thoracic Surgery University of Texas Southwestern Medical Center 1998 – present Adjunct Assistant Clinical Professor School of Nursing University of Texas at Arlington 2005 - present

## PRIOR ACADEMIC POSITIONS

Professor and Vice Chairman, and Robert Tucker Hayes Foundation Distinguished Chair in Cardiothoracic Surgery Department of Cardiovascular and Thoracic Surgery University of Texas Southwestern Medical Center 2000 - 2010

Associate Professor

Division of Thoracic and Cardiovascular Surgery University of Texas Southwestern Medical Center 1995 - 2000

**Assistant Professor** 

Division of Thoracic and Cardiovascular Surgery University of Texas Southwestern Medical Center 1990 - 1995

## **EDUCATION**

1975-1977 University of Manitoba

Winnipeg, Manitoba, Canada

**Premedical Studies** 

1977-1981 University of Manitoba

Winnipeg, Manitoba, Canada

**Doctor of Medicine** 

## PROFESSIONAL TRAINING

1981-1982 University of Manitoba

Winnipeg, Manitoba, Canada

Special Mixed Internship in Surgery

1982-1986 University of Manitoba

Winnipeg, Manitoba, Canada Residency in General Surgery 1986-1988 Duke University Medical Center

Durham, NC

Surgical Research Fellow

1988-1990 Duke University Medical Center

Durham, NC

Residency in Thoracic Surgery

# **CERTIFICATION**

1981	Licentiate of the Medical Council of Canada
1982	Diplomate of the National Board of Medical Examiners
1986	Specialist Certificate in General Surgery, Royal College of
	Surgeons of Canada
1988	Diplomate of the American Board of Surgery #33953
	(Recertified 1998, 2007)
1990	Specialist Certificate in Cardiovascular and Thoracic Surgery,
	Royal College of Surgeons of Canada
1991	Diplomate of the American Board of Thoracic Surgery #5092
	(Recertified 2000, 2010)

# **HONORS AND AWARDS**

1976	Isbister Scholarship, University of Manitoba
1976	Alumni Scholarship, University of Manitoba
1977	Maxwell Rady Scholarship, University of Manitoba
1977	Morton Stall Scholarship, University of Manitoba
1981	Valedictorian, Medical School Class of 1981, University of Manitoba
1984	Harold Micay Surgical Resident Award, University of Manitoba
1985	Davis and Geck Surgical Resident Award, University of Manitoba
1994	Lyndon Baines Johnson Research Award, American Heart
	Association, Texas Affiliate
2006	Named holder of the Robert Tucker Hayes Foundation
	Distinguished Chair in Cardiothoracic Surgery
2010	Named holder of the Frank M. Ryburn Distinguished Chair in
	Cardiothoracic Surgery
2011	Department of Cardiovascular and Thoracic Surgery Faculty
	Teaching Award
2011	Elected to Alpha Omega Alpha Honor Medical Society

# **LICENSURE**

Texas #H8696

North Carolina #31841

# **RESEARCH SUPPORT**

1986-87	Surgical Research Fellowship, Department of Surgery, University of Manitoba (Research done at Duke University Medical Center, Durham, NC), \$32,000
1987-88	Canadian Heart Foundation Research Fellowship, "Biochemical and functional response to ischemia and reperfusion in the neonatal myocardium", \$33,600 P.I.: M. E. Jessen
1987-88	Grant-in-Aid American Heart Association, North Carolina Affiliate #1987-88-A-28 "Vein Graft Harvesting: Endothelial Functional Biochemistry", \$7,500 P.I.: M. E. Jessen
1991-93	Texas Advanced Technology Program Research Grant #003660088 "Biocompatibility of Materials for Cardiopulmonary Bypass", \$166,250 P.I.: M.E. Jessen
1993-98	Southwestern Biomedical Magnetic Resonance Facility Grant NIH 2 P41 RR02584, P.I. Craig R. Malloy; Collaborative Project #5 "Substrate Modification for Myocardial Protection" Project P.I.: M. E. Jessen
1993-95	Texas Advanced Technology Program Development Grant #003660-141 "A Gas Anticoagulant System", \$121,875 P.I.: R.C. Eberhart, Co-I.: M. E. Jessen
1994-96	Grant-in-Aid American Heart Association, Texas Affiliate #94G-145 "Metabolic Effects of Cardioplegia Substrate Enhancements" \$82,015 P.I.: M. E. Jessen - declined.
1994-96	Grant-in-Aid American Heart Association, National Center #94013300 "Improved Substrate Enhancements for Myocardial Protection" \$87,560 P.I.: M. E. Jessen
1996-97	Research Grant, BIOPURE Corporation "Use of Hemoglobin-Based Oxygen Carriers in Patients Following Cardiac Surgery" \$112,000 P.I.: P.E. Greilich, Co-I: M. E. Jessen
1996-99	Grant-in-Aid American Heart Association, National Center #96007740 "Metabolic Effects of Cardioplegia Substrate Enhancements in Adult and Neonatal Myocardium" \$131,670 P.I.: M. E. Jessen

1997-99	Texas Advanced Technology Program Research Grant #003660-047 "Closed Loop Nitric Oxide Delivery System", \$96,030 P.I.: R. C. Eberhart, Co-I.: M. E. Jessen
1998	Research Grant, Bayer Corporation "Anti-inflammatory Effects of Antifibrinolytic Therapy in Cardiac Surgery" \$40,000 P.I.: P. E. Greilich, Co-I: M. E. Jessen
1998-99	New Investigator Award, Department of Veterans Affairs, VISN 17 "Predictive Value of Novel On-Site Hemostasis Monitors on Blood Loss" \$88,000.00 P.I.: P. E. Greilich, Co-I.: M. E. Jessen
1998-2002	National Institutes of Health (NHLBI) Grant # 1 R01 HL57310 "Citric Acid Cycle Metabolism During Cardiac Surgery", \$509,733 P.I.: M. E. Jessen
1998-2001	Southwestern Biomedical Magnetic Resonance Facility Grant NIH 2 P41 RR02584, P.I. Craig R. Malloy; Collaborative Project #2 "Metabolic Effects of Cardioplegia Substrate Enhancements in Myocardium" Project P.I.: M. E. Jessen
1999	Society of Cardiovascular Anesthesiologists/ Ischemia Research and Education Foundation Starter Grant Award "Hyperfibrinolysis-Induced Platelet Dysfunction in Patients Undergoing Cardiopulmonary Bypass Surgery" \$20,000 P.I.: P. E. Greilich, Co-I: M. E. Jessen
2001-06	Southwestern NMR Center for <i>in vivo</i> Metabolism Facility Grant NIH 2 P41 RR02584-14, P.I. Craig R. Malloy; Collaborative Project #9 "Citric Acid Cycle Metabolism During Cardiac Surgery" Project P.I.: M. E. Jessen
2002-04	Grant-in-Aid American Heart Association, National Center #0250316N "Metabolic Mechanisms of Myocardial Protection" \$214,500 P.I.: M. E. Jessen
2003-06	Texas Advanced Technology Program Research Grant # 010019-0108-2003 " Dynamic Organ Preservation: A Strategy to Expand the Donor Pool for Heart Transplantation ", \$160,000 P.I.: M. E. Jessen
2004-08	Sponsored Research Agreement, Organ Transport Systems (Contract ID #700731) "Dynamic Organ Preservation Using Preservation Devices", \$570,353 P.I: M. E. Jessen

2009-11

Grant-in-Aid American Heart Association, South Central Affiliate # 09GRNT2300004 "Effects of preservation solution substrate composition on myocardial metabolism during machine perfusion for transplant ", \$140,000 P.I.: M. E. Jessen

#### SOCIETIES

Fellow, Royal College of Physicians and Surgeons of Canada (ID #342483)

Fellow, American College of Surgeons (ID #3000542)

Fellow, American College of Cardiology

ACCF/AHA Task force on Practice Guidelines - CABG Writing Committee 2010

Member, Society of Thoracic Surgeons

Member, Workgroup on Thoracic Resident Issues 2012-2015

Member, Workgroup on Evidenced Based Surgery 2014-2017

Member, American Heart Association, Council on Cardiothoracic and Vascular Surgery

Council Representative to AHA Delegate Assembly 1998, 2000-01

Member at Large, Executive Committee 2000-01

Information Technology Working Group 2000-01

Member, American Medical Association

Member, Texas Medical Association

Member, Dallas County Medical Society

Member, American Society for Artificial Internal Organs

Program Committee 1994-1996

Membership Committee 1995-1996

Member, North Texas Electrophysiology Society

Board of Trustees 1994-1998

Program Chairman 1994-1998

Member, International Society for Magnetic Resonance in Medicine

Senior Member, Society of University Surgeons

Active Member, American Association for Thoracic Surgery

Member, Cardiothoracic Residents Committee 2008-2011

Co-chair, Cardiothoracic Residents Committee 2011-2012

Active Member, Cardiac Surgery Biology Club

Member, Thoracic Surgery Directors Association

Nominating Committee 2016

Member, Southern Thoracic Surgical Association

# **Participation in Supported Multicenter Trials**

Trials conducted at the University of Texas Southwestern Medical Center at Dallas, with Michael E. Jessen, MD as co-investigator:

Antiarrhythmics versus Implantable Defibrillators (AVID)

A comparison of antiarrhythmic-drug therapy with implantable defibrillators in patients resuscitated from near-fatal ventricular arrhythmias

# Sponsored by the National Institutes of Health

Multicenter UnSustained Tachycardia Trial (MUSTT)

A comparison of antiarrhythmic-drug therapy with implantable defibrillators in patients with inducible ventricular tachyarrhythmias Sponsored by the National Institutes of Health

P2 Endotak Investigators Study

Phase I clinical investigation of a non-thoracotomy defibrillator lead in combination with a biphasic ICD generator system Sponsored by Cardiac Pacemakers, Inc.

Pexelizumab for the Reduction of Infarction and Mortality in Coronary Artery Bypass Graft Surgery (PRIMO-CABG)

Clinical trial evaluating the effects of Pexelizumab in patients undergoing cardiac surgery with cardiopulmonary bypass.

Sponsored by Alexion Pharmaceuticals

Program in Ex-vivo Vein graft Engineering via Transfection (PREVENT-IV)

Phase III Clinical trial evaluating the effects of a transcription factor blocking agent (E2F decoy) on vein graft patency and intimal hyperplasia after coronary bypass grafting.

Sponsored by Corgentech, Inc.

Surgical Treatment of Ischemic Congestive Heart Failure (STICH)

Clinical trial evaluating the role of coronary bypass grafting and ventricular restoration surgery in patients with congestive heart failure from ischemic heart disease.

Sponsored by the National Institutes of Health

Natrecor Administered Peri-Anesthesia in Patients Undergoing CT Surgery (NAPA) Scios Study A014. A pilot multicenter, randomized, double-blind, placebo-controlled study to evaluate Nesiritide infusion, initiated post-induction of anesthesia, in management of coronary artery bypass graft (CABG) patients requiring cardiopulmonary bypass (CPB) Sponsored by Scios Inc.

MC-1 to Eliminate Necrosis and Damage in CABG Surgery (MEND-CABG II)

A randomized, double-blind, placebo-controlled, multi-center study to
evaluate the cardioprotective effects of MC-1 in patients undergoing highrisk coronary artery bypass graft (CABG) surgery
Sponsored by Medicure, Inc

Reduction in Cardiovascular Events by Acadesine in subjects undergoing CABG Trial (RED-CABG).

A randomized, double-blind, placebo-controlled, multinational, Phase 3 study of high-risk patients undergoing on-pump CABG to assess the effect of acadesine as an intravenous infusion for the prevention of ischemia-reperfusion injury

Sponsored by Schering-Plough Corporation

Omega-3 Fatty Acids for Prevention of Post-Operative Atrial Fibrillation (OPERA). A randomized, multicenter, double-blind, placebo-controlled, multinational study of patients undergoing cardiac surgery to assess the effect of n-3 polyunsaturated fatty acids (PUFA) for the prevention of atrial fibrillation after surgery.

Sponsored by UNICORN/ GlaxoSmithKline

A Study of RO4905417 in Patients Undergoing Coronary Artery Bypass Graft (CABG) Surgery (SELECT CABG).

A randomized double-blind, placebo-controlled study to evaluate the efficacy and safety of RO4905417 in the prevention of saphenous vein graft disease in patients undergoing elective or urgent coronary artery bypass surgery. Sponsored by Hoffmann-La Roche

Novel Lung Trial: Normothermic Ex Vivo Lung Perfusion (EVLP) As an Assessment Of Extended/Marginal Donor Lungs (NCT01365429)

A non-randomized safety study evaluating ex-vivo perfusion of human donor lungs with a specialized solution (Steen Solution) to assess the ability to transplant lungs otherwise deemed unsuitable for transplantation or lungs procured for donation after cardiac death (DCD) donors. Sponsored by XVIVO Perfusion

Trials conducted at the Dallas Veterans Affairs Medical Center, with Michael E. Jessen, MD as site investigator:

Coronary Artery Revascularization Prophylaxis Trial (CARP)
A clinical trial of revascularization prior to peripheral vascular surgery
Sponsored by the VA Cooperative Study Program (Study #411)

Outcomes Following Myocardial Revascularization: On and Off Cardiopulmonary Bypass (ROOBY)

A clinical trial of on-pump and off-pump coronary bypass surgery Sponsored by the VA Cooperative Study Program (Study #517)

VA Coronary Artery Revascularization in Diabetes Study (VA CARDS) A randomized multi-site trial comparing percutaneous coronary stenting to coronary bypass for angiographically significant coronary artery disease in diabetics

Sponsored by the VA Cooperative Study Program (Study #557)

Evaluation of XIENCE PRIME™ or XIENCE V® versus Coronary Artery Bypass Surgery for Effectiveness of Left Main Revascularization (EXCEL) A global, prospective, multi-center, randomized trial to assess the safety and efficacy of the XIENCE PRIME/XIENCE V Everolimus Eluting Coronary Stent Systems, compared to coronary artery bypass grafting (CABG), in select patients with unprotected left main coronary artery disease.

Sponsored by Abbott

C-Pulse® System: A Heart Assist Device Clinical Study (COUNTER HF) A prospective, multi-center, randomized trial to assess the safety and efficacy of the C-Pulse® System ("C-Pulse") as a treatment for patients in moderate to severe heart failure. ClinicalTrials.gov Identifier: NCT01740596

Sponsored by Sunshine Heart Inc.

## **Peer Review Activities**

Editorial Board, Annals of Thoracic Surgery, 2006-present

Ad hoc reviewer:

Journal of Thoracic and Cardiovascular Surgery
Journal of Cardiac Surgery
ASAIO Journal
Circulation
Journal of Applied Physiology
Surgery
PLoS One

Member, SESATS VII, Critical Care Committee, 1996-7

Member, Western Review Consortium, American Heart Association, 2004

Abstract Reviewer, Scientific Sessions of the American Heart Association, 2004-6, 2009-15

Abstract Reviewer, Annual Meeting of the Society of Thoracic Surgeons, 2005-9, 2014-15

Abstract Reviewer, Annual Meeting of the American Association for Thoracic Surgery, 2010

Chairman, Data Safety Monitoring Committee, Veterans Affairs CSP# 588 "Randomized Endo-Vein Graft Prospective (REGROUP) Trial

## **BOOKS**

Meyer DM, Jessen ME: <u>Extracorporeal Life Support</u>. Georgetown, Landes Bioscience, 2001.

#### **BOOK CHAPTERS**

- 1. Abd-Elfattah AS, Maddox RP, Jessen ME, Rebeyka IM, Wechsler AS: Selective nucleoside transport blocker NBMPR attenuates myocardial stunning in a rabbit model deficient of xanthine oxidase. *In* Abd-Elfattah AS, Wechsler AS (Eds.): Purines and Myocardial Protection. Kluwer Academic Publishers, Norwell, MA, 1995, pp. 219-230.
- 2. Jessen ME: Surgical Disorders of the Pericardium. *In* Sabiston DC (Ed.): Textbook of Surgery: The Biological Basis of Modern Surgical Practice, 15th ed. Philadelphia, W.B. Saunders Company, 1996 pp. 1943-1951.
- 3. Jessen ME: Surgical Disorders of the Pericardium. *In* Sabiston DC, Lyerly HK (Eds.): Textbook of Surgery Pocket Companion. Philadelphia, W.B. Saunders Company, 1997 pp. 698-700.
- 4. Eberhart RC, Li J, Sly MK, Shastri P, Bhujle R, Gaffke JN, Clift JE, Ye Y-W, Jessen ME, Chao R, Constantinescu A, Kulkarni P: Scintigraphic Analysis of Cell Adhesion in Oxygenators and Internal Organs. *In* Akutsu T, Koyanagi H (Eds.): *Heart Replacement Artificial Heart 6*. Tokyo, Springer-Verlag, 1998 pp. 464-466.
- 5. Meyer DM, Wait MA, Jessen ME, Ring WS: Optimal Thoracic Organ Donor Management. *In* Klintmalm GB, Levy MF (Eds.): *Handbook of Organ Retrieval and Preservation*. Austin, Landes Bioscience, 1999 pp. 94-112.
- 6. Wait MA, Meyer DM, Jessen ME, Ring WS: Surgical Technique for Thoracic Organ Recovery. *In* Klintmalm GB, Levy MF (Eds.): *Handbook of Organ Retrieval and Preservation*. Austin, Landes Bioscience, 1999 pp. 128-146.
- 7. Eberhart RC, Li J, Dollar ML, Kulkarni PV, Constantinescu A, Chao RY, Jessen ME: Surface modification and analysis of membrane oxygenators. *In* Park KD, Kwon IC, Yui N, Park K (Eds.): *Biomaterials and Drug Delivery Systems: Towards the New Millenium*. Seoul, Hanrimwon Press, 2000 pp. 437-48.
- 8. Sandoval BA, Jessen ME: Pericardial Disease. *In* Pappas TN, Purcell GP (Eds.): *Unbound Surgery*. Charlottesville, Unbound Medicine, Inc., 2004. http://www.unboundmedicine.com/unboundsurgery.htm
- 9. Eberhart RC, Li J, Sly MK, Chao R, Constantinescu A, Kulkarni PV, Jessen ME: Noninvasive measurement of the transient adhesion of cells to blood-contacting surfaces. *In* Yaszemski M, Trantolo D, Lewandrowski KU, Hasirci V, Altobelli D, Wise D

(Eds.): Tissue Engineering and Novel Delivery Systems. New York, Marcel Dekker, 2004 pp. 55-74.

# **PUBLISHED ARTICLES**

- 1. Downs AR, Jessen ME, Lye CR: Peripheral nerve injuries following carotid endarterectomy. <u>Can J Surg</u>, 30:22-24, 1987.
- 2. Brunsting LA, Jessen ME, Abd-Elfattah AS, Mask WK, Godwin CK, Wechsler AS: Myocardial protective effects of the class I<sub>C</sub> antiarrhythmic agent flecainide. <u>J Thorac</u> Cardiovasc Surg, 94:904-910, 1987.
- 3. Jessen ME, Abd-Elfattah AS, Lekven J, Brunsting LA, Doherty NE, Wechsler AS: Sensitivity of neonatal hearts to ischemia: Confusion from failure to control the bathing medium during ischemia. <u>Surg Forum</u>, 38:226-227, 1987.
- 4. Abd-Elfattah AS, Jessen ME, Lekven J, Doherty NE, Brunsting LA, Wechsler AS: Myocardial reperfusion injury: Role of myocardial hypoxanthine and xanthine in "free-radical-mediated" reperfusion injury. <u>Circulation</u>, 78(suppl III):224-235, 1988.
- 5. Jessen ME, Hanan SA, Abd-Elfattah AS, Tuchy GE, Maddox RP, Wechsler AS: Oxygen consumption in the empty-beating, fibrillating, and potassium-chloride arrested neonatal heart. Surg Forum, 39:233-235, 1988.
- 6. Tuchy GE, Jessen ME, Hanan SA, Abd-Elfattah AS, Maddox RP, Wechsler AS: Coronary sinus delivery of cardioplegia containing metabolic inhibitors for protection of ischemic myocardium. <u>Surg Forum</u>, 39:204-297, 1988.
- 7. Lekven J, Brunsting LA, Jessen ME, Abd-Elfattah AS, Doherty NE, Wechsler AS: Myocardial oxygen consumption with epinephrine in ischemically-injured canine hearts. <u>Circulation</u>, 78(suppl III):125-136, 1988.
- 8. Brunsting LA, Jessen ME, Lekven J, Hoehner JC, Dyke CM, Wechsler AS: Importance of perfusion pressure in the preload-dependence of right ventricular blood flow. <u>Surg Forum</u>, 39:244-246, 1988.
- 9. Hanan SA, Jessen ME, Tuchy GE, Abd-Elfattah AS, Wechsler AS: Effect of coronary collateral recruitment on ventricular recovery after brief coronary occlusion in dogs and swine. <u>Surg Forum</u>, 40:227-229, 1989.
- 10. Mask WK, Abd-Elfattah AS, Jessen ME, Brunsting LA, Lekven J, Wechsler AS: Embryonic versus adult myocardium: Adenine nucleotide degradation during ischemia. Ann Thorac Surg, 48:109-112, 1989.

- 11. Abd-Elfattah AS, Jessen ME, Hanan SA, Tuchy G, Wechsler AS: Is adenosine 5'-triphosphate derangement or free-radical-mediated injury the major cause of ventricular dysfunction during reperfusion? <u>Circulation</u> 82(suppl IV):341-350, 1990.
- 12. Eichhorn EJ, Alvarez LG, Jessen ME, Fass SM, Chao RY, Haagen D, Grayburn PA: Measurement of coronary and peripheral artery flow by intravascular ultrasound and pulsed doppler velocimetry: *In vivo* feasibility studies. <u>Am J Cardiol</u> 70:542-545, 1992.
- 13. Bassel-Duby R, Grohe CM, Jessen ME, Parsons WJ, Richardson JA, Chao R, Grayson J, Ring WS, Williams RS: Sequence elements required for transcriptional activity of the human myoglobin promoter in intact rat myocardium. <u>Circ Res</u> 73:360-366, 1993.
- 14. Jessen ME, Kovarik TE, Jeffrey FM, Sherry AD, Storey CJ, Chao RY, Ring WS, Malloy CR: Effects of amino acids on substrate selection, anaplerosis and left ventricular function in the ischemic reperfused rat heart. J Clin Invest 92:831-839, 1993.
- 15. Jessen ME, Meyer DM, Moncrief CM, Wait MA, Melamed NB, Ring WS: Reducing neurologic complications after cardiac transplantation: Technical considerations. J Card Surg 8:546-553, 1993.
- 16. Moliterno DJ, Jessen ME, Schueler K, Cohen J: Plasma Lipoprotein(a) concentrations are not elevated by cardiopulmonary bypass. <u>Atherosclerosis</u> 104:223-225, 1993.
- 17. Wait MA, Jessen ME: Rupture of the pulmonary artery with free intrapleural hemorrhage from Swan-Ganz catheters. <u>Contemp Surg</u> 44:275-280, 1994.
- 18. Jessen ME, Olivari MT, Wait MA, Meyer DM, Yancy CW, Jr, Ring WS: Frequency and significance of right bundle branch block after cardiac transplantation. <u>Am J Cardiol</u> 73:1009-1011, 1994.
- 19. Willard JE, Landau C, Glamann DB, Burns D, Jessen ME, Pirwitz MJ, Gerard RD, Meidell RS: Genetic modification of the vessel wall: comparison of surgical and catheter-based techniques for delivery of recombinant adenovirus. <u>Circulation</u> 89:2190-2197, 1994.
- 20. Wait MA, Mueller M, Barth MJ, Brickner E, Salman T, Jessen ME: Traumatic coronary sinucameral fistula due to penetrating cardiac injury. Report of a case and review of the literature. <u>J Trauma</u> 36:894-897, 1994.
- 21. Abd-Elfattah AS, Jessen ME, Wechsler AS: Nucleoside trapping during reperfusion prevents ventricular dysfunction, "stunning", in absence of adenosine. <u>J</u> Thorac Cardiovasc Surg 108:269-78, 1994.

- 22. Reed MK, Barak C, Malloy CR, Maniscalco SP, Jessen ME: Effects of cardioplegia with glutamate and aspartate on TCA cycle metabolism. <u>Surg Forum</u> 45:227-30, 1994.
- 23. Olivari M-T, Jessen ME, Baldwin BJ, Horn VPH, Yancy CW Jr, Ring WS, Rosenblatt RL: Triple-drug immunosuppression with steroid discontinuation by six months after cardiac transplantation. J Heart Lung Transplant 14:127-35, 1995.
- 24. Meyer DM, Jessen ME, and the Extracorporeal Life Support Organization: Results of extracorporeal membrane oxygenation (ECMO) in neonates with sepsis the ELSO experience. J Thorac Cardiovasc Surg 109:419-27, 1995.
- 25. Meyer DM, Jessen ME, Eberhart RC, and the Extracorporeal Life Support Organization: Neonatal extracorporeal membrane oxygenation complicated by sepsis. Ann Thorac Surg 59:975-80, 1995.
- 26. Vardi A, Jessen ME, Chao RY, Brink LW, Levin DL, Johnson RL: Effect of ECMO flow on pulmonary capillary blood flow. <u>Crit Care Med</u> 23:726-32, 1995.
- 27. Horton RP, Canby RC, Roman CA, Jessen ME, Schulte TJ, Page RL: Diagnosis of ICD lead failure using continuous event marker recording. <u>PACE</u> 18:1331-4, 1995.
- 28. Mull DH, Wait MA, Page RL, Jessen ME: The importance of complete system removal of infected cardioverter-defibrillators. <u>Ann Thorac Surg</u> 60:704-6, 1995.
- 29. Sly MK, Prager MD, Eberhart RC, Jessen ME, Kulkarni PV: Inhibition of surface-induced platelet aggregation by nitric oxide. ASAIO J 41:M394-M398, 1995.
- 30. Meyer DM, Jessen ME, Grayburn PA: The use of echocardiography to detect cardiac injury after penetrating thoracic trauma: A prospective study. <u>J Trauma</u> 39:902-9, 1995.
- 31. Jessen ME, Abd-Elfattah AS, Wechsler AS: Neonatal myocardial oxygen consumption during ventricular fibrillation, hypothermia, and potassium chloride arrest. <u>Ann Thorac Surg</u> 61:82-7, 1996.
- 32. Kessler DJ, Canby RC, Horton RP, Joglar JA, Jessen ME, Page RL: Effect of biphasic endocardial countershock on pacing thresholds in humans. <u>Am J Cardiol</u> 77:527-8, 1996.
- 33. Malloy CR, Jones JG, Jeffrey FM, Jessen ME, Sherry AD: Contribution of various substrates to total citric acid cycle flux and anaplerosis as determined by <sup>13</sup>C isotopomer analysis and O<sub>2</sub> consumption in the heart. Magnetic Resonance Materials in Physics, Biology and Medicine 4:35-46, 1996.

- 34. Jessen ME, Horn VPH, Weaver DE, Boehrer JD, Ring WS: Successful surgical repair of aortic dissection presenting with complete heart block. <u>Ann Thorac Surg</u> 62:1202-3, 1996.
- 35. Sly M, Prager M, Li J, Harris F, Shastri P, Bhujle R, Chao R, Kulkarni P, Constantinescu A, Jessen M, Eberhart R: Platelet and neutrophil distributions in pump-oxygenator circuits. III. Influence of nitric oxide gas infusion. <u>ASAIO J</u> 42:M494-M499, 1996.
- 36. Reed MK, Barak C, Malloy CR, Maniscalco SP, Jessen ME: Effects of glutamate and aspartate on substrate oxidation during potassium arrest. <u>J Thorac Cardiovasc Surg</u> 112:1651-60, 1996.
- 37. Johnston N, Jessen ME, Zeidler ME: Simplified solution to reducing electrical noise during cardiac surgery. <u>J Extra Corpor Technol</u> 28:205-8, 1996.
- 38. Horton RP, Canby RC, Roman CA, Hull ML, Kaye SA, Jessen ME, Page RL: Determinants of non-thoracotomy biphasic defibrillation. <u>PACE</u> 20:60-4, 1997.
- 39. Meyer DM, Jessen ME and the Extracorporeal Life Support Organization: Results of extracorporeal membrane oxygenation (ECMO) in children with sepsis. <u>Ann</u> Thorac Surg 63:756-61, 1997.
- 40. Mull DH, Jessen ME: Alternate surgical approach for post-traumatic thoracic aortic pseudoaneurysm. J Trauma 42:546-8, 1997.
- 41. Horton RP, Canby RC, Kessler DJ, Joglar JA, Hume A, Jessen ME, Scott WP, Page RL: Ablation of ventricular tachycardia associated with Tetralogy of Fallot: Demonstration of bi-directional block. <u>J Cardiovasc Electrophysiol</u> 8:432-5, 1997.
- 42. Tauriainen MP, Jessen ME, Malloy CR, Chao RY, Reed MK, Meyer DM: Effect of 6-hour preservation on substrate utilization in an isolated lung preparation: A <sup>13</sup>C magnetic resonance spectroscopy study. <u>Surg Forum</u> 48:322-4, 1997.
- 43. Rajasubramanian S, Nelson KD, Shastri P, Constantinescu A, Kulkarni P, Jessen ME, Eberhart RC: Design of an oxygenator with enhanced gas transfer efficiency. <u>ASAIO J</u> 43:710-4, 1997.
- 44. Bhujle R, Li J, Shastri P, Gaffke J, Clift J, Ye Y-W, Dollar ML, Ching P, Chao R, Constantinescu A, Kulkarni P, Wians F, Jessen M, Eberhart R: Influence of cardiopulmonary bypass on platelet and neutrophil accumulations in internal organs. <u>ASAIO J</u> 43:739-44, 1997.
- 45. Meyer DM, Jessen ME, Wait MA, Estrera AS: Early evacuation of traumatic hemothoraces using thoracoscopy a prospective, randomized trial. <u>Ann Thorac Surg</u> 64:1396-1401, 1997.

- 46. The AVID Investigators: A comparison of antiarrhythmic-drug therapy with implantable defibrillators in patients resuscitated from near-fatal ventricular arrhythmias. N Engl J Med 337:1576-83, 1997.
- 47. Barak C, Reed MK, Maniscalco SP, Sherry AD, Malloy CR, Jessen ME: Effects of dichloroacetate on mechanical recovery and oxidation of physiological substrates after ischemia and reperfusion in the isolated heart. <u>J Cardiovasc Pharmacol</u> 31:336-44, 1998.
- 48. Abd-Elfattah ASA, Maddox RP, Jessen ME, Rebeyka IM, Wechsler AS: Role of nucleoside transport and purine release in a rabbit model of myocardial stunning. <u>Mol</u> Cell Biochem 180:145-51, 1998.
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## **ABSTRACTS**

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# **PRESENTATIONS**

Hemodynamic sequelae following carotid endarterectomy. Presented at the American College of Surgeons Meeting - Manitoba Chapter (Region IX), December, 1983

Breast biopsy for mammographic lesions. Presented at the American College of Surgeons Meeting - Manitoba Chapter (Region IX), December, 1984

Prognostic factors for survival in congenital (Bochdalek) diaphragmatic hernia. Presented at the American College of Surgeons Meeting - Manitoba Chapter (Region IX), December, 1985

Evaluating Function and Metabolism after Ischemia in Neonatal Myocardium. Presented at the Spring Cardiovascular Symposium, Duke University Medical Center, Durham, NC, April, 1987

Sensitivity of Neonatal Myocardium to Ischemia: Confusion from Failure to Control the Bathing Media During Ischemia. Presented at the Forum Session of the Clinical Congress of the American College of Surgeons, San Francisco, CA, October, 1987

Oxygen Consumption in the Empty-Beating, Fibrillating, and Potassium-Chloride Arrested Neonatal Heart. Presented at the Spring Cardiovascular Symposium, Duke University Medical Center, Durham, NC, April, 1988

Oxygen Consumption in the Empty-Beating, Fibrillating, and Potassium-Chloride Arrested Neonatal Heart. Presented at the Forum Session of the Clinical Congress of the American College of Surgeons, Chicago, IL, October, 1988

Patterns of substrate oxidation in reperfused myocardium: a <sup>13</sup>C NMR study. Presented at the 65th Scientific Sessions of the American Heart Association, New Orleans, LA, November, 1992

<sup>13</sup>C Isotopomer analysis: A technique for analysis of intermediary metabolism in ischemic reperfused heart tissue. Presented at the 2nd International Symposium on Heart Failure, Geneva, Switzerland, May, 1993

Acetate and lactate oxidation in the perfused failing human heart. Presented at the 12th Annual Meeting of the Society of Magnetic Resonance in Medicine, New York, NY, August, 1993.

Platelet and neutrophil deposition on membrane oxygenator circuits studied by noninvasive dual isotope scintigraphy. Presented at the ASAIO Cardiovascular Science and Technology Conference, Washington DC, December 9-11, 1994.

Effects of pyruvate on pyruvate carboxylation and substrate selection in the heart. Presented at the 3rd Meeting of the Society of Magnetic Resonance, Nice, France, August, 1995.

Teleconference and Panel Discussion on Myocardial Protection. Live telecast from Zale Lipshy University Hospital to the 16th Annual San Diego Cardiothoracic Surgery Symposium, San Diego, CA, March 1, 1996.

Increasing anaplerosis improves cardiac function after ischemia. Presented at the 4th Scientific Meeting of the International Society for Magnetic Resonance in Medicine, New York, NY, April, 1996.

Metabolic effects of cardioplegia. Presented at the 35th International Conference of the American Society of Extracorporeal Technology, Phoenix, AZ, April 5,1997.

Metabolic effects of secondary cardioplegia. Presented at the 31st Annual Meeting of the Association for Academic Surgery, Dallas, TX, November 7, 1997.

Secondary cardioplegia suppresses fatty acid oxidation and improves post-ischemic ventricular function. Presented at the 6th Scientific Meeting of the International Society of Magnetic Resonance in Medicine, Sydney, Australia, April, 1998.

Potassium cardioplegia suppresses neonatal myocardial fatty acid metabolism. Presented at the 6th Scientific Meeting of the International Society of Magnetic Resonance in Medicine, Sydney, Australia, April, 1998.

Measurement of oxygen consumption in lung tissue by <sup>13</sup>C NMR. Presented at the 8<sup>th</sup> Scientific Meeting of the International Society for Magnetic Resonance in Medicine, Denver, CO, April, 2000.

Monitoring in cardiac surgery. Keynote Address at the Annual Meeting of the Texas Association of Nurse Anesthetists, Galveston, TX, August 25, 2000.

Goal-directed Therapy - the Dallas Experience. Presented at "Optimal Care of the Higher Risk Surgical Patient", San Francisco, CA, October 19, 2000.

Esophageal Doppler monitoring during cardiac surgery. Presented at Surgical Grand Rounds, Duke University Medical Center, Durham, NC, November 8, 2000.

Aortic Jeopardy. Presented at Surgical Grand Rounds, Maimonides Medical Center, Brooklyn, NY, June 28, 2001.

Acute Aortic Syndromes. Presented at UT Southwestern Vascular and Endovascular Symposium, Dallas, TX, May 24, 2002.

New Concepts in Myocardial Preservation. Presented at the Symposium on Current Techniques and Trends in Cardiovascular Surgery and Perfusion, Dallas, TX, October 20, 2002.

Sangrado en Cirugia Cardiaca: Estrategia de prevencion y manejo (Bleeding after cardiac surgery: Strategies for management and prevention); Technicas de proteccion miocardica en cirugia cardiaca (Techniques of myocardial protection in cardiac surgery); Transplante de corazone (Cardiac transplantation); and Sindromes aotico agudos

(Acute aortic syndromes). Presented at the International Meeting of Cardiology and Cardiovascular Surgery, Quito, Ecuador, November 6-8, 2002.

Aortic Dissection and its Variants. Presented at Surgical Grand Rounds, Maricopa Medical Center, Phoenix, AZ, December 4, 2002.

Use of the Radial Artery in Coronary Artery Bypass. Presented at the Symposium on New Perspectives on Radial Artery Harvesting, Dallas, TX, December 9, 2002.

Potential Uses of Nesiritide in Cardiac Surgery. Presented at Wichita Falls, TX, September 30, 2003.

Perioperative Hypertension in Cardiac Surgery. Presented at Cardiology/CT Surgery Grand Rounds, University of Arkansas for Medical Sciences, Little Rock, AK, August 11, 2004.

Limit entre la reparacion y el reemplazo de valvula mitral (Limits of mitral valve repair and replacement); El futuro de la cirugia coronario en la era de los stents medicados (The future of coronary surgery in the era of drug-eluting stents). Presented at the XXXII Jornadas Internationales de Cardiologia, Quito, Ecuador October 24-28, 2004.

Vasoactive Therapy in Critically III Patients. Presented at Cardiology/CT Surgery Grand Rounds, Arizona Heart Institute, Phoenix, AZ, June 16, 2005.

Coronary Off-Pump Debate: Con. Presented at the 42<sup>nd</sup> Annual Meeting of the Society of Thoracic Surgeons, Chicago, IL, January 31, 2006.

Magnetic Resonance Spectroscopy for Evaluating Cardiac Metabolism. Presented at the Cardiac Surgery Biology Club, Philadelphia, PA, April 29, 2006.

Bleeding After Cardiac Surgery: A Comparison of Anti-Fibrinolytic Strategies. Presented at the Perfusion at Sea Conference, Galveston, TX, June 16-18, 2006.

I Can't Place the LV Lead on the Lateral Wall: What Are My Options? Presented at Heart Rhythm 2007 – 28<sup>th</sup> Annual Scientific Sessions of the Heart Rhythm Society, Denver, CO, May 9, 2007.

Current Status of Off-Pump Coronary Artery Bypass Grafting. Presented at the 2007 Kendall Cardiovascular Symposium, Miami Beach, FL, May 22-23, 2007.

Novel Anti-Hypertensive Strategies in the ICU. Presented at the 8<sup>th</sup> Annual New Cardiovascular Horizons Meeting, New Orleans, LA, September 8, 2007.

Surgical Revascularization for Chronic Ischemic Heart Disease. Presented at the 2010 Scientific Sessions of the American Heart Association, Chicago, IL, November 17,2010.

Spinal Cord Protection During Thoracic Aortic Surgery; Management of Complications of Cardiac Transplantation. Presented at the 23<sup>rd</sup> Annual Conference of the Saudi Heart Association, Riyadh, Saudi Arabia, January 27-30, 2012.

CABG: When is Cold Steel the Best Deal? Presented at ACC.12, the 61<sup>st</sup> Annual Scientific Session and Expo of the American College of Cardiology, Chicago, IL, March 24-27, 2012.

Assuming Administrative Responsibilities. Presented at the 2012 American Association for Thoracic Surgery Leadership Academy, San Francisco, CA, April 27, 2012.

Qué hay de nuevo en los Lineamientos de 2011 (Guidelines) de Cirugía de Revascularización Coronaria? (What's New in the 2011 CABG Guidelines); Neuvas Estrategias de Protectión del Corazón Donante en Transplante (New Strategies for Protecting the Donor Heart for Transplantation) Presented at Trancendiendo Fronteras en Cardiologia, Enfermedad Cardiovascular Y Cerebrovascular, Quito, Ecuador May 6-9, 2012.

Could a heart donated in Dallas be transplanted in Guangzhou? Research on long-term organ preservation. Joint Forum and Workshop: The First Affiliated Hospital, Sun Yatsen University and UT Southwestern Medical Center. Guangzhou, China, October 18-19, 2012.

Review of Revascularization Guidelines. Dallas Cardiovascular Innovations 2012, Dallas, TX, December 8, 2012.

Progress in machine perfusion to preserve donor hearts for transplantation. 2013 IEEE EMB Medical Device Symposium, Dallas, TX, November 7, 2013.

Revascularization Guideline Update: Review of Perioperative Guidelines. Dallas Cardiovascular Innovations 2013, Dallas TX, January 18, 2014.

TAVR in 2015. Dallas Cardiovascular Innovations 2015, Dallas TX, January 18, 2015.

Coronary Artery Bypass Grafting in 2016. Dallas Cardiovascular Innovations 2016, Dallas TX, January 16, 2016.

Mechanical Circulatory Support Following STEMI. Texas Health Dallas STEMI Conference, Dallas TX, April 16, 2016.

## **FILMS**

Lowe JE, Jessen ME: Resection and Repair of Giant Left Ventricular Aneurysm. Presented at the Spectacular Problems in Surgery Film Session of the 75<sup>th</sup> Clinical Congress of the American College of Surgeons, Atlanta, GA, October, 1989.