

CURRICULUM VITAE

Kim F Duncan, MD

CAMPUS ADDRESS: Department of Surgery-Cardiovascular&Thoracic Surg
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EDUCATION

1986 MS, Surgery, U Alberta
1976 MD, Doctor of Medicine, U Alberta
1974 BS, Medical Science, University of Alberta

POST DEGREE TRAINING

7/1985 - 6/1986 Fellowship, Clinical Instructor, Surgery-Cardiothoracic Surgery, University of Toronto, Ontario Canada
7/1984 - 6/1985 Fellowship, Senior Surgical Registrar, Cardiothoracic Unit, The Hospital for Sick Children Great Ormand St. London, England
1/1983 - 6/1984 Residency, Thoracic and Cardiovascular Surgery, University of Alberta Edmonton, Alberta Canada
7/1980 - 6/1981 Residency, Surgical Research, Medical Research institute, University of Alberta Edmonton, Alberta Canada
7/1977 - 6/1982 Residency, General Surgery, University of Alberta Hospitals Edmonton, Alberta Canada
6/1976 - 6/1977 Junior Rotating Internship, Ottawa Civic Hospital Ottawa, Ontario Canada

ACADEMIC APPOINTMENTS

2005 - Present Professor, Surgery-Cardiovascular&Thoracic Surg, UNMC, Omaha, NE
2005 - Present Asst. Clinical Professor, Surgery, Creighton University School of Medicine, Omaha, NE
1993 - 1996 Assoc. Professor, Surgery, UNMC, Omaha, NE
1986 - 1993 Asst. Professor, Surgery, University of Manitoba, Winnipeg

CERTIFICATIONS AND LICENSES

1987 - Present Royal College of Physicians and Surgeons of Canada Cardiovascular & Thoracic Surgery
1982 - Present Royal College of Physicians and Surgeons of Canada General Surgery
2009 - 2019 American Board of Thoracic Surgery Cong. Heart Surgery
1987 - 2019 American Board of Thoracic Surgery
1984 - 1995 American Board of Surgery
Present Inactive, Manitoba
2008 - 2013 Active, South Dakota
2006 - 2012 Active, Nebraska

OTHER APPOINTMENTS AND POSITIONS

2011 - Present	Vice-Chair of Quality and Compliance, CT Surgery, UNMC, Omaha, NE, USA
2005 - Present	Attending Staff, Surgery, UNMC, Omaha, NE,
1996 - Present	Consulting Provisional Staff, Surgery-Cardiothoracic Surgery, St. Elizabeth's Regionaal Medical Center, Omaha, NE,
1994 - Present	Courtesy Staff, Surgery, St. Joseph Hospital, Omaha, NE,
2005 - 2011	Chief, Surgery-Cardiothoracic Surgery, UNMC, Omaha, NE,
2001 - 2005	Consulting Staff, Surgery, UNMC, Omaha, NE,
1995 - 2011	Courtesy B Staff, Surgery, Nebraska Methodist Hospital, Omaha, NE,
1994 - 1996	Clinical Instructor, Pediatrics, UNMC, Omaha, NE,
1993 - 2011	Director, Cardiothoracic Surgery, Children's Hospital & Medical Center, Omaha, NE,
1989 - 1993	Active Staff, Surgery, Health Sciences Centre, Winnipeg, Manitoba Canada
1989 - 1993	Consulting Staff, Surgery, St. Boniface General Hospital, Winnipeg, Manitoba Canada
1987 - 1993	Surgical director, Surgery, Variety Children's Heart Center, Winnipeg, Manitoba Canada
1986 - 1993	Chief, Pediatric Cardiovascular Surgery, Children's Hospital, Winnipeg, Manitoba Canada
1986 - 1989	Assoc. Staff, Surgery, Health Science Centre, Winnipeg, Manitoba Canada

HONORS AND AWARDS

LOCAL

1972 & 1974 Varsity Letters in Football and Rugby, University of Alberta, Canada

NATIONAL

2007 Alley-Sheridan Scholarship, Heller School for Social Policy and Managemenet, Brandeis University, USA

REGIONAL

1981 Resident Research Award, American College of Surgeons (Alberta Chapter)

MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

2005 - Present	Member, Congenital Heart Surgeons Society
2005 - Present	Member, World Society of Congenital Heart Surgery
1999 - Present	Member, CT Surgery Section, American Academy of Pediatrics
1998 - Present	Member, Midwest Pediatric cardiology Society
1997 - Present	Member, American College of Chest Physicians
1994 - Present	Member, American Medical Association
1994 - Present	Member, MOMS, Nebraska Medical Association
1994 - Present	Nebraska Chapter, FACS, American College of Surgeons
1991 - Present	Member, Society of Thoracic Surgeons
1988 - Present	Member, American Heart Association
1987 - Present	Member, Canadian Cardiovascular Society
1982 - Present	Member, Royal College of Physicians & Surgeons of Canada
1980 - Present	Fellow Member, FACS, American College of Surgeons
1980 - 1989	Resident member, FACS, American College of Surgeons

COMMITTEE ASSIGNMENTS

COLLEGE OF MEDICINE

2007 - Present	Member, Solid Organ Transplant Quality Steering Committee, UNMC
2007 - 2009	Member, Promotion and Tenure Committee, UNMC
2008 - 2008	Chairman, Promotion and Tenure Committee, UNMC

DEPARTMENTAL

2011 - Present	Vice Chair, Quality and Compliance, UNMC
2005 - Present	Member, Department of Surgery, Executive Committee, UNMC
2005 - 2012	Member, Cardiovascular Executive Committee, UNMC

LOCAL/REGIONAL

2012 - Present	CLA-BSI Interdisciplinary Committee
2011 - Present	Vice Chair, Surgery Interdisciplinary Committee,, Childrens Hospital and Medical Center
2008 - Present	Member, Clinical Service Chiefs Committee, Children's Hospital and Medical Center
2006 - Present	Member, PICU Interdisciplinary Committee, Children's Hospital and Medical Center
2005 - Present	Member, ECMO Advisory Committee, Children's Hospital and Medical Center
2003 - 2011	Member, Focused Peer Review Committee, Children's Hospital and Medical Center

MEDICAL STAFF

2011 - 2012	Director, Cardiovascular Services, Nebraska Medical Center
2005 - 2012	Member, OR Services Committee, Nebraska Medical Center

UNMC

2002 - Present	Member, Clinical Perfusion Advisory Committee, UNMC
2006 - 2009	Co-Chairman, UNMC Executive Committee Crew Resource Management, UNMC

PRESENTATIONS

1. Hammel JM, **Duncan KF**. A Two-Stage Surgical Approach to Critical Aortic Stenosis with Severe Left Ventricular Dilation and Dysfunction (poster). Presentation presented at: Midwest Pediatric Cardiology Society 33rd Annual Scientific Session; 2009 Oct 6-7; Pittsburg, PA.
2. Amin Z, Danford D, Gremmels D, Schamberger M, Williams WG, Forbes TJ, Strawn JA, Reddy CM, **Duncan KF**, Moore P, Hanley FL. Determinants of Acute Homograft Failure in Right Ventricular Outflow Tract: A Multi-Institutional Study. Presentation presented at: American Association for Thoracic Surgery, Annual meeting; 2002 May 5-8; Washington, D.C..
3. **Duncan KF**. Surgery for Single Ventricle. Presentation presented at: Nebraska Society of Anesthesiology annual meeting, Mahoney State Park; 2000 May 6; Ashland, NE.
4. **Duncan KF**. The Ross Procedure; Technical Considerations. Presentation presented at: Midwest Pediatric Cardiology Society, annual meeting; 2000 Sep15; Milwaukee, WI.
5. **Duncan KF**, Martin F. Post-op Congenital Heart Disease: Management After Discharge. Presentation presented at: American Academy of Pediatrics, Annual Meeting, Session A256; 1999 Oct 10; Washington, D.C..
6. **Duncan KF**. Surgery for Congenital Heart Defect 1995. Presentation presented at: Regional West Medical Center; 1995 Apr 6; Scottsbluff, NE.
7. **Duncan KF**. Update on Pediatric Cardiac Surgery. Presentation presented at: Grand Rounds, Good Samaritan Hospital; 1994 Mar 25; Kearney, NE.
8. **Duncan KF**. Congenital Heart Disease. Presentation presented at: Perinatal Medical Conference, Good Samaritan Hospital; 1994 Sep 14; Kearney, NE.

9. **Duncan KF.** Congenital Heart Disease. Presentation presented at: Perinatal Medical Conference, Good Samaritan Hospital; 1994 Sep 14; Kearney, NE.
10. **Duncan KF.** Functional single ventricle with aortic obstruction: current management. Presentation presented at: Symposium on Pediatrics Cardiopulmonary Bypass; 1994 Mar 17; San Diego, CA.
11. **Duncan KF.** Management of congenital heart disease. Presentation presented at: Nebraska Chapter, American Academy of Pediatrics Meeting, Mahoney State Park; 1994 Nov 19; Ashland, NE.
12. Giddins N, **Duncan KF**, Pierce G, Persad R. Effects of chronic rapid right atrial pacing on hemodynamics and myofibrillar ATP-ase activity in piglets. Presentation presented at: American College of Cardiology 42nd Annual Scientific Session; 1993 Mar 14-18; Anaheim, CA.
13. Giddins N, **Duncan KF**, Pelech A, McCrindle B, Collins G. Peri-operative left heart dimensions in total anomalous venous connection. Presentation presented at: Annual meeting of the Canadian Society for Clinical Investigation, The Royal College of Physicians and Surgeons; 1992 Sep 11-14; Ottawa, Ontario Canada.
14. **Duncan KF.** Allografts in cardiac surgery. Presentation presented at: Symposium on Organ Donation and transplantation; 1992 Nov 27; University of Manitoba Winnipeg, Manitoba Canada.
15. **Duncan KF.** Techniques in cardioplegia: Warm induction and reperfusion. Presentation presented at: The Lunar Society Meeting for congenital heart surgery; 1991 Nov 15; Chicago, IL.
16. **Duncan KF.** Extracorporeal support following surgery for congenital heart defects. Presentation presented at: Visiting Professor, Pediatrics Grand Rounds, Children's Hospital of Western Ontario; 1991 Nov 18; London, Ontario Canada.
17. **Duncan KF.** Myocardial preservation: Clinical aspects. Presentation presented at: Division of Molecular Physiology, NMR Research group National Research Council; 1990 Jan 9; Ottawa, Ontario Canada.
18. **Duncan KF.** The Fontan procedure: Indications, techniques, results. Presentation presented at: Manitoba Operating Room Nurses Association; 1989 Jan 7; Winnipeg, Manitoba Canada.
19. **Duncan KF.** Surgery of Congenital heart defects: Current practice. Presentation presented at: Annual Conference, Manitoba Health Organization; 1988 Nov; Winnipeg, Manitoba Canada.
20. Trusler GA, **Duncan KF**, Williams WG, Hesslein PS, Olley PM, Benson LN, Izukawa T, Freedom RM. Results with mustard operation in simple transposition of the great arteries 1963-85. Presentation presented at: American Surgical Association; 1987 Apr 21-23; Palm Beach, FL.
21. **Duncan KF.** Peri-operative care of the cardiac neonate. Presentation presented at: 6th Annual Pediatric update session on pediatric cardiology, Health Sciences Center, University of Manitoba; 1987 Oct 1; Winnipeg, Manitoba Canada.
22. **Duncan KF.** Corrective heart surgery in infancy and childhood. Presentation presented at: 6th Annual Pediatric update session on pediatric cardiology, Health Sciences Center, University of Manitoba; 1987 Oct 1; Winnipeg, Manitoba Canada.
23. **Duncan KF.** Bleeding time prolongation in children with acyanotic congenital heart disease. Presentation presented at: Canadian Cardiovascular Society Annual Meeting; 1987 Oct 8-31; Edmonton, Alberta Canada.
24. Coles JG, Willimas WG, Watanabe T, **Duncan KF**, Sheret H, Dasmahapatra H, Freedom RM, Trusler GA. Surgical experience with reparative techniques in congenital mitral valvular anomalies. Presentation presented at: American Heart Association 59th Scientific Session; 1986 Nov 17-20; Dallas, TX.
25. **Duncan KF**, Elliott MJ, Nixon C, London K.. Unilateral Phrenic nerve palsy after cardiothoracic surgery in children. Presentation presented at: XVII World Congress of the International Society of Cardiovascular Surgery; 1985 Aug 26-30;
26. **Duncan KF.** Congenital aortic stenosis in infances: A review 1971-85. Presentation presented at: The Hospital for Sick Children, great Ormond Street Course in Surgery for Congenital Heat Disease; 1985 Sep 30-Oct 3; London, Unite Kingdom.

MISCELLANEOUS

1982 - 1982

Sabbatical, Board Preparations; thesis work; Locum Tenens in General Surgery with the physicians of Baker Clinic July 1, 1982 to Dec 31, 1982, Royal Alexandra Hospital

PUBLICATIONS

A. ARTICLES PUBLISHED IN SCHOLARLY JOURNALS

1. **Duncan KF**. Autotransplantation of canine pancreatic tissue fragments. Masters of Science Thesis in Surgery. unknown : unknown. 1986.
2. Coles JG, Williams WG, Watanabe T, **Duncan KF**, Sherret H, Dasmahapatra HK, Freedom RM, Trusler GA. Surgical experience with reparative techniques in patients with congenital mitral valvular anomalies. *Circulation*. 76(3 Pt 2) : III117-22. 1987.
3. Trusler GA, Williams WG, **Duncan KF**, Hesslein PS, Benson LN, Freedom RM, Izukawa T, Olley PM. Results with the Mustard operation in simple transposition of the great arteries 1963-1985. *Annals of surgery*. 206(3) : 251-60. 1987.
4. **Duncan KF**, DeLeval , MR , Sullivan J, Hovath P, Stark J. Transventricular valvotomy for critical aortic stenosis in infants. *Journal of Thoracic and Cardiovascular Surgery*. 93 : 546-50. 1987.
5. **Duncan KF**. Surgery for Congenital Heart Defects in Children. *Manitoba Medicine*. 59 : 56-61. 1989.
6. Giddins N, Pelech A, **Duncan KF**. Right-sided Aortic Arch. *Chest*. 101(6) : 1739. 1992.
7. Fletcher SE, **Duncan K**. Management strategies in transposition of the great vessels; 1994. *The Nebraska medical journal*. 79(11) : 372-4. 1994.
8. Stammers AH, Rauch ED, Willett LD, Newberry JW, **Duncan KF**. Pre-operative coagulopathy management of a neonate with complex congenital heart disease: a case study. *Perfusion*. 15(2) : 161-8. 2000.
9. Amin Z, McElhinney DB, Strawn JK, Kugler JD, **Duncan KF**, Reddy VM, Petrossian E, Hanley FL. Hemidiaphragmatic paralysis increases postoperative morbidity after a modified Fontan operation. *The Journal of thoracic and cardiovascular surgery*. 122(5) : 856-62. 2001.
10. Russo LM, Fletcher S, Danford DA, **Duncan K**, Najdawi E. Persistent third aortic arch (carotid duct) associated with critical coarctation of the aorta. *Echocardiography (Mount Kisco, N.Y.)*. 18(7) : 621-2. 2001.
11. Giddins NG, **Duncan KF**, Persad R, Gilchrist JSC, Pierce GN. Effects of chronic rapid right atrial pacing on cardiac hemodynamics and myofibrillar ATP-ase activity in piglets. *The Canadian journal of cardiology*. 18 : 157-61. 2002.
12. Amin Z, Danford DA, Lof J, **Duncan KF**, Froemming S. Intraoperative device closure of perimembranous ventricular septal defects without cardiopulmonary bypass: preliminary results w. *The Journal of thoracic and cardiovascular surgery*. 127(1) : 234-41. 2004.
13. Fletcher SE, **Duncan K**, Schroeder B, Danford DA. Coarctation of a right-sided aortic arch and an unusual vascular ring. *Journal of cardiovascular magnetic resonance : official journal*. 6(2) : 577-81. 2004.
14. Fenton KN, Pigula FA, Gandhi SK, Russo L, **Duncan KF**. Interim mortality in pulmonary atresia with intact ventricular septum. *The Annals of thoracic surgery*. 78(6) : 1994-8; di. 2004.
15. Deptula JJ, Fogg SK, Glogowski KR, Fenton KN, Hunt P, **Duncan KF**. A technique for performing antegrade selective cerebral perfusion without interruption of forward flow or cannula relocation for. *The Journal of extra-corporeal technology*. 36(4) : 324-8. 2004.
16. Deptula JJ, Fogg SK, Glogowski KR, Fenton KN, **Duncan KF**. Extended support with the Terumo Baby-RX oxygenator. *The Journal of extra-corporeal technology*. 36(4) : 364-7. 2004.
17. Fenton KN, Freeman K, Glogowski K, Fogg S, **Duncan KF**. The significance of baseline cerebral oxygen saturation in children undergoing congenital heart surgery. *American journal of surgery*. 190(2) : 260-3. 2005.
18. Deptula J, Globowski K, Merrigan K, Hanson K, Felix D, Hammel J, **Duncan K**. Evaluation of biocompatible cardiopulmonary bypass circuit use during pediatric open heart surgery. *Journal Extra Corpor Technol*. 38(1) : 22-6. 2006.
19. Fenton KN, Lessman K, Glogowski K, Fogg S, **Duncan KF**. Cerebral oxygen saturation does not normalize until after stage 2 single ventricle palliation. *The Annals of thoracic surgery*. 83(4) : 1431-6. 2007.
20. Hammel JM, Deptula J, Hunt PW, Lang H, **Duncan KF**. Anoxic ventilation improves systemic perfusion during extracorporeal circulation with uncontrolled systemic-to-pulmonary shunt. *ASAIO journal (American Society for Artificial Internal Organs : 1992)*. 53(2) : 238-40. 2007.
21. Deptula J, Valleley M, Glogowski K, Detwiler J, Hammel JM, **Duncan K**. Clinical evaluation of the Terumo Capiox FX05 hollow fiber oxygenator with integrated arterial line filter. *Journal Extra Corporeal Technology*. 41(4) : 220-5. 2009.
22. Deptula J, Hammel JM, George K, Detwiler J, Glogowski K, Valleley M, **Duncan K**. Stage 1 palliation for hypoplastic left heart syndrome without the use of allogeneic tissue, with reduced allogeneic blood product exposure: a case report. *Journal Extra Corpor Technology*. 43(4) : 258-60. 2011.

23. Rangamani S, Varghese J, Li L, Harvey L, Hammel JM, Fletcher SE, **Duncan KF**, Danford DA, Kuty S. Safety of cardiac magnetic resonance and contrast angiography for neonates and small infants: a 10-year single-institution experience. *Pediatric radiology*. 42(11) : 1339-46. 2012.

B. ARTICLES ACCEPTED FOR PUBLICATION IN SCHOLARLY JOURNALS

1. Hammel JM, **Duncan KF**, Danford DA, Kuty S. Two-stage biventricular rehabilitation for critical aortic stenosis with severe left ventricular dysfunction. *European Journal of Cardiothoracic Surgery*. 2012;

C. ARTICLES SUBMITTED FOR PUBLICATION IN SCHOLARLY JOURNALS

1. Hammel JM, Hunt PW, Abdullah I, **Duncan KF**. "Closed-Vein" technique for primary sutureless repair of anomalous pulmonary venous connection. *Annals of Thoracic Surgery*. 2012;

D. BOOKS PUBLISHED, IN PREPARATION, SUBMITTED OR IN PRESS

1. **Duncan KF**, Stark J, Cardiac Valve Disease in Children. Jeffrey M Dunn, editors. New York: Elsevier Publishing Co, Inc; 1988. Critical aortic stenosis in infancy;

E. CHAPTERS IN BOOKS

1. **Duncan KF**. Cardiac Reconstruction with Allograft Tissue. Richard A Hopkins, editors. New York: Springer Science & Business Media Inc; 2005. Chapter 10, Right Ventricular Outflow Reconstruction: Proximal and Distal Extensions;

F. BOOKS OR JOURNALS EDITED

Not Applicable

G. ABSTRACTS AND PRELIMINARY COMMUNICATIONS

Not Applicable

H. PUBLISHED AUDIOVISUAL OR COMPUTER-BASED EDUCATIONAL MATERIALS AND COMPUTER SOFTWARE

Not Applicable

I. PUBLISHED CONTINUING EDUCATION MATERIALS

Not Applicable

J. CONFERENCE PROCEEDING

Not Applicable