

CURRICULUM VITAE

18 November 2010

NAME

Igor E. Konstantinov

QUALIFICATIONS

MD, PhD

CONTACT DETAILS

*Cardiac Surgery Unit, Royal Children's Hospital,
Flemington Road, , Australia*

Tel: 61 3 9345 5200; Fax.: 61 3 9345 6386;

Mobile: 0405233226 or 0416063395.

E-mails: konstantinov.igor@alumni.mayo.edu,
igor.konstantinov@rch.org.au,

CURRENT APPOINTMENTS

*June, 2009- Clinical Professor, University of Melbourne
May 2014*

*July, 2008- Clinical Professor of Surgery, University of Western Australia
Dec 2011*

*July 1, 2008- Consultant Cardiac Surgeon, Royal Children's Hospital
Present Melbourne, Australia*

Major Achievements and Summary

PUBLICATIONS

1. The Natural and Modified History of Congenital Heart Disease

Edited by Robert M. Freedom, Futura Publishing Company Inc., New York, 2003

Chapter 3. *Ventricular septal defect.*

Chapter 24A. *Total anomalous pulmonary venous connections.*

Chapter 24E. *Congenital stenosis of the individual pulmonary veins.*

2. A Practical Approach to Perioperative Cardiac Anesthesia and Surgery

Edited by Davy C.H. Cheng, MD and Tirone E. David, MD, Second Edition,

Lippincott Williams & Wilkins, Philadelphia, 2005

Chapter 37: *Adult Congenital Heart Surgery*

Journal publication summary as follows:

	Published (MEDLINE)	In Press	Submitted
Primary Manuscripts	120	8	5
Reviews	1	0	1
Letters	21	1	0
Group studies*	0	0	0

* Listed in paper as part of multinational study group

Top 3 papers based on Journal Impact Factor

1. Cheung MMH, Kharbanda RK, Konstantinov IE, Shimizu M, Frnova H, Li J, Holtby HM, Cox PN, Smallhorn JF, Van Arsdell GS, Redington AN. Randomised controlled trial of the effects of remote ischemic preconditioning in children undergoing cardiac surgery: first clinical application in humans. *J Am Coll Cardiol* 2006;47:2277-82.
2. Konstantinov IE, Arab S, Kharbanda RK, Li J, Cheung MM, Cherepanov V, Downey GP, Liu P, Cukerman E, Coles JG, Redington AN. The remote ischemic preconditioning stimulus modifies inflammatory gene expression in humans. *Physiol Genomics* 2004;19(1):143-50.
3. Schmidt MR, Smerup M, Konstantinov IE, Shimizu M, Li J, Cheung MMH, White PA, Kristiansen SB, Sorensen K, Dzavik V, Redington AN, Kharbanda RK. Intermittent peripheral tissue ischemia during coronary ischemia reduces myocardial infarction: first demonstration of remote ischemic preconditioning. *Am J Physiol Heart Circ Physiol* 2007; 292(4):H1883-90.

Top 3 papers based on number of citations

1. Konstantinov IE, Arab S, Kharbanda RK, Li J, Cheung MM, Cherepanov V, Downey GP, Liu P, Cukerman E, Coles JG, Redington AN. The remote ischemic preconditioning stimulus modifies inflammatory gene expression in humans. *Physiol Genomics* 2004;19(1):143-50.
2. Cheung MMH, Kharbanda RK, Konstantinov IE, Shimizu M, Frnova H, Li J, Holtby HM, Cox PN, Smallhorn JF, Van Arsdell GS, Redington AN. Randomised controlled trial of the effects of remote ischemic preconditioning in children undergoing cardiac surgery: first clinical application in humans. *J Am Coll Cardiol* 2006;47:2277-82.
3. Schmidt MR, Smerup M, Konstantinov IE, Shimizu M, Li J, Cheung MMH, White PA, Kristiansen SB, Sorensen K, Dzavik V, Redington AN, Kharbanda RK. Intermittent peripheral tissue ischemia during coronary ischemia reduces myocardial infarction: first demonstration of remote ischemic preconditioning. *Am J Physiol Heart Circ Physiol* 2007; 292(4):H1883-90.

Leadership

Design and planning of clinical and experimental research projects
Grant applications
Grant reviewer for the NHMRC

Research

1. *Peri-operative cardio-pulmonary protection: its molecular mechanisms, genomic responses and clinical application;*
2. *Clinical outcome studies*

Major External Collaborations

Professor William G. Williams, MD, FRCS, Congenital Heart Surgeons' Society, CHSS Data Centre, Hospital for Sick Children, Toronto, Canada
 Collaborative multicenter outcome studies

Professor Andrew N. Redington, MD, FRCP, Cardiology, Hospital for Sick Children, Toronto, Canada
 Molecular mechanisms of protection against ischemia-reperfusion injury

Education

Continuous teaching of undergraduate, AMS and PhD students

Professional Service

Member of the Council of the School of Surgery and Pathology, University of Western Australia

International Recognition

Invited speaker to:

1. Congres des 20 ans de la Chirurgie Cardiaque, 25-26 April 2007, Nimes, **FRANCE**
2. 15th World Congress on Heart Disease, July 18-21, 2010 Vancouver, BC, **CANADA**
3. 5th World Congress of Paediatric Cardiology and Cardiac Surgery, June 21-26, 2009 Cairns, **AUSTRALIA**

Presentations:

1. Thubrikar MJ, Konstantinov IE, Selim GA, Gong GG, Fowler B, Robicsek F. The influence of sizing on the dynamic function of the free-hand implanted porcine aortic homograft: an in vitro study.

American Society of Artificial Internal Organs, May 23, 1999, San Diego, **USA**

2. Konstantinov IE, Coles JG, Takahashi M, Goncalves J, Boscarino C, Van Arsdell GS. Age related gene expression in children undergoing cardiac surgery for tetralogy of Fallot.

The American Association of Thoracic Surgeons, May 6, 2003, Boston, **USA**

3. Konstantinov IE. Remote ischemic preconditioning modifies inflammatory gene expression in human: a microarray study.

Clinical Genomics and Proteomics, University of Toronto Cardiovascular Scientific Day, May 23, 2003, Toronto, **CANADA**

4. McCrindle BW, Tchervenkov CI, Konstantinov IE, Williams WG, Neirotti R, Jacobs ML, Blackstone EH. Risk factors associated with mortality and reinterventions in 474 neonates with interruption of the aortic arch: a congenital heart surgeons society study.

The American Association of Thoracic Surgeons, April 19, 2004, Toronto, **CANADA**

CV in detail

Past appointments

Dec. 1, 2007- July, 2008 *Associate Professor of Surgery, University of Western Australia*

July 1, 2007- June 30, 2008 *Consultant Cardiothoracic Surgeon, Cardiac Surgery Unit Sir Charles Gairdner Hospital, Perth, WA 6009, Australia*

Education

Jan. 15, 2007- June 31, 2007 *Fellow, Cardiothoracic Surgery, Royal Children's Hospital, Flemington Road, Parkville, Melbourne, Australia*

Jan. 15, 2006- Jan. 15, 2007 *Senior Registrar, Cardiothoracic Surgery, Prince Charles Hospital Rode Road, Chermside, QLD 4032, Australia*

Jan. 15, 2005- Jan. 15, 2006 *Senior Registrar, Cardiothoracic Surgery, Sir Charles Gairdner Hospital, Verdun Street, Perth, WA 6009, Australia*

July 1, 2002- **Cardiac Surgery Research Fellowship,**
Jan. 15, 2005 **Ph.D. thesis:** "Gene Expression in Cardiac Surgery: Impact of Ischaemia and Re-perfusion"
Hospital for Sick Children, Univ. of Toronto, Toronto, Canada

July 1, 2001- **Pediatric Cardiac Surgery Clinical Fellowship,** Hospital for Sick
June 30, 2002 Children, University of Toronto, Toronto, Canada

July 1, 2000- **Cardiac Surgery Clinical Fellowship,** Toronto General Hospital,
June 30, 2001 University of Toronto, Toronto, Canada

June 30, 1999- **Advanced Cardiothoracic Surgery Clinical Fellowship,**
July 1, 2000 Mayo Clinic, Rochester, MN 55905, USA

July 1, 1998- **Pediatric Cardiac Surgery Clinical Fellowship,** The Heart Institute for
June 30, 1999 Children, Hope Children's Hospital, Oak Lawn, Chicago, IL 60453, USA

July 1, 1997- **Clinical Fellowship in Thoracic and Cardiovascular Surgery**
June 30, 1998 The Carolina Heart Institute, 1000 Blythe Blvd., Charlotte, NC 28232

June 1, 1994 - **Fellowship in Thoracic and Cardiovascular Surgery**
July 1, 1997 University Hospital, S-581 85 Linkoping, SWEDEN

July 1, 1992- **Internship/Residency in Thoracic and Cardiovascular Surgery,**
Jan 1, 1997 St.Petersburg Cardiac Center, Pokrov Hospital,
Bolshoy pr. 85, V.O., St. Petersburg 199026 RUSSIA

July 1, 1991 **Internship in General Surgery**
June 1, 1992 Military Medical Academy, St. Petersburg, RUSSIA

1986-1992 **Military Medical Academy,**
Lebedeva 6, 194044 St. Petersburg, RUSSIA
Graduation: 20 June 1992

FELLOWSHIPS AND MEMBERSHIPS

1. **SCANDINAVIAN ASSOCIATION OF THORACIC SURGEONS, member**
2. **RUSSIAN SOCIETY OF CARDIOVASCULAR SURGERY, member**
3. **MAYO CLINIC ALUMNI SOCIETY, member**
4. **NEW YORK ACADEMY OF SCIENCES, invited member**
5. **AMERICAN PHYSIOLOGICAL SOCIETY, invited member**
6. **SECTION OF ACADEMIC SURGERY, ROYAL AUSTRALASIAN COLLEGE OF SURGEONS, member**
7. **INTERNATIONAL COLLEGE OF ANGIOLOGY, invited member**

UNDERGRADUATE AND POSTGRADUATE DEGREES

MD: Military Medical Academy, St. Petersburg, Russia, 20 June 1992
PhD: University of Toronto, Toronto, Canada, 25 June 2004
Ph.D. thesis title: "Gene Expression in Cardiac Surgery: Impact of Ischaemia and Re-perfusion"

Medical Licensing Examinations:

1. United States Medical Licensing Examination:

ECFMG Certificate # 0-526-610-1, USMLE Steps 1,2,3 passed;
Certificate valid indefinitely

2. Licentiate of the Medical Council of Canada:

Evaluating Exam: Passed (Feb., 2002); QE Part I: Passed (Nov., 2002)
QE Part II: Passed (Oct., 2003);
Certificate valid indefinitely

3. Australian Medical Council Certificate:

Certificate number 6924, issued on 2 June 2008
Certificate valid indefinitely

Board Certification Status:

1. Thoracic and Cardiovascular Surgery Board Certificate (Russia)

Reg.# 8810; Jan. 22, 1997

Board Certified in Cardiothoracic Surgery

2. Royal Australasian College of Surgeons (Australia)

In progress

EXTERNAL PEER REVIEWED FUNDED GRANTS

2004

\$ 84,000 Canadian

From The Physicians' Services Incorporated Foundation (PSIF) for the study titled,
"The Effect of the Remote Ischemic Preconditioning Stimulus on Leukocyte Gene
Expression and Functional Responses".

Co-applicants: Igor E. Konstantinov, Andrew N. Redington, Sara Arab, Peter P. Liu,
Gregory Downey

The PSIF, 5160 Yonge Street, Suite 1006, Toronto, ON, M2N 6L9, Canada

Tel.: (416) 266 6323; Fax.: (416) 226 6080

E-mail: psif@psifoundation.org

2007

\$ 10,000 Australian

From the Australasian Society of Cardiothoracic Surgery for the study titled,
"Endothelin-1 blockade for the prevention of ischaemia-reperfusion injury post lung
transplantation".

Co-applicants: Andrew Clarke, Igor E. Konstantinov, John Fraser.

2008

\$ 39,825 Australian

From NHF of Australia WA Branch for the project titled: "Role of Kallikrein-Kinin system in
remote ischemic preconditioning"

Chief Investigator: Igor E. Konstantinov

NHF of Australia WA Branch Research Development Office, SCGH, Nedlands, WA

Tel.: 61 8 9346 4534; Fax: 61 8 9346 4537; e-mail: daniella.polce@health.wa.gov.au

2009

\$ 6.000 Australian

From Murdoch Children's Research Institute for the project titled: ***“The proteomic response to remote ischemic preconditioning stimuli – a pilot study”***.

Chief Investigator: Igor E. Konstantinov

Murdoch Children's Research Institute, Flemington Road, Parkville, VIC 3052

Tel.: (03) 8341 6200; Fax.: (03) 9348 1391

NATIONAL HEALTH AND MEDICAL RESEARCH grants:

Chief Investigator: Igor E. Konstantinov

NHMRC, Level 5, 20 Allara street, Canberra, ACT, Australia

Tel.: 61 2 6217 9000; Fax.: 61 2 6217 9100; e-mail: nhmrc@nhmrc.gov.au

- **2009: NHMRC # 557507: Delayed phase of remote ischemic preconditioning: clinical application and the role of kallikrein-kinin pathway. \$154.500**
- **2010: NHMRC # 628756: Identification of a plasma factor of remote ischemic preconditioning and its effect on the proteome after heart surgery \$375.250**
- **2010: NHMRC # 607404: Does remote ischemic preconditioning induce protective mitochondrial function in congenital heart defect surgery? \$138.900**

INTERNAL PEER REVIEWED FUNDED GRANTS

2007

\$ 45,996 Australian

From The Prince Charles Hospital Foundation for the study entitled,

“Does remote ischemic preconditioning improve human right atrial function in vitro and improve clinical outcomes post-operatively?”

Co-applicants: Peter Molenaar, Igor E. Konstantinov, John Fraser, John Dunning.

INDUSTRY FUNDED GRANTS

2008

\$ 40.000 Australian

From CellCept Australia Research Grants for the study titled, ***“The Implications of Brain Death in Donor Lung Injury: Investigation and Blockade of the Endothelin Axis”***

Co-applicants: Fraser J, Chambers D, Barnett A.

CARG, Roche Products Pty Ltd 4-10 Inman Road, Dee Why NSW, Australia

Tel.: (02) 9454 9000; Fax.: (02) 9981 3229

PROVISIONAL/PATENT APPLICATIONS

\$ 60.000 Australian

From The Contributing to Australian Scholarship and Science (CASS) Foundation for ***“Does brief interruption of blood flow in the arm changes proteomic profile in humans?”***.

EDITORIAL/ REVIEWER ROLES

Journals:

The Lancet (2007-9), *Circulation* (2005-8), *European Journal of Cardiothoracic Surgery* (2005-9), *Journal of Catheterization and Interventions* (2005-6), *Journal of Thoracic and Cardiovascular Surgery* (2006-9), *Physiological Genomics* (2005-9), *Heart* (2006-7), *The Annals of Thoracic Surgery* (2003-9), *Journal of Clinical Anesthesia* (2007), *Thrombosis Research* (2009-10), *Clinical Anatomy* (2010).

Conferences:

Member of the Scientific Advisory Boards to *International Academy of Cardiology* and *The 14th World Congress on Heart Disease*, Toronto, ON, Canada, July 19-29, 2008

Invited Speaker to 5th World Congress of Paediatric Cardiology and Cardiac Surgery, June 21-26, 2009 Cairns, Australia

Member of the Scientific Advisory Boards to *International Academy of Cardiology* and *The 15th World Congress on Heart Disease*, Vancouver, BC, Canada, July 24-27, 2010

PhD SUPERVISION

PhD students:

1. Dr Saxena, MCh, DNB, University of Western Australia – successful completion
2. Ms Hepponstall, BMedSci, University of Melbourne

ADVANCED MEDICAL SCIENCE (AMS) SUPERVISION

AMS students:

2009-2010

1. Matthew Yong, University of Melbourne
2. Nathalie Soszyn, University of Melbourne
3. Tyson Fricke, University of Melbourne
4. Jeremy Ong, University of Melbourne

2010-2011

1. Jacqueline Cheung, University of Melbourne
2. Ryan Diggle, University of Melbourne

PUBLICATIONS

Book chapters:

1. *The Natural and Modified History of Congenital Heart Disease*

Edited by Robert M. Freedom, Futura Publishing Company Inc., New York, 2003

Chapter 3. *Ventricular septal defect.*

Robert M. Freedom, Shi-Joon Yoo, John G. Coles, Igor Konstantinov.

Chapter 24A. *Total anomalous pulmonary venous connections.*

Robert M. Freedom, Shi-Joon Yoo, John G. Coles, Igor Konstantinov.

Chapter 24E. *Congenital stenosis of the individual pulmonary veins.*

Robert M. Freedom, Shi-Joon Yoo, John G. Coles, Igor Konstantinov.

2. A Practical Approach to Perioperative Cardiac Anesthesia and Surgery

Edited by Davy C.H. Cheng, MD and Tirone E. David, MD, Second Edition,

Lippincott Williams & Wilkins, Philadelphia, 2005

Chapter 37: *Adult Congenital Heart Surgery*

Glen Van Arsdell, Igor E. Konstantinov, William G. Williams

Manuscripts:

1996

1. Hermansson U, Konstantinov I, Traff S. Lung injury with pleuropericardial rupture successfully treated by video-assisted thoracoscopy.

J Trauma 1996; 40: 1024-5.

2. Franzen SF, Huljebrant IE, Konstantinov IE, Nylander E, Olin CL. Aortic valve replacement for aortic stenosis in patients with small aortic root.

J Heart Valve Disease 1996; 5 (Suppl. III), S 284-8.

1997

3. Konstantinov IE, Peterffy A. Tricuspid and pulmonary valve replacement in carcinoid heart disease.

J Heart Valve Disease 1997; 6:193-7.

4. Konstantinov IE, Franzen SF, Olin CL. Periprosthetic leaks and valve dehiscence. Alternative methods of repair.

J Heart Valve Disease 1997; 6:281-7.

5. Konstantinov IE. Eck-Pavlov shunt: the 120th anniversary of the first vascular anastomosis.

Surgery 1997; 121(6): 640-5.

6. Hermansson U, Konstantinov IE, Aren C. Tumor dissemination after VATS: What does it mean?

J Thorac Cardiovasc Surg 1997;114(2):300-302.

7. Konstantinov IE. The first coronary artery bypass operation and forgotten pioneers.

Ann Thorac Surg 1997;64:1522-3.

8. Konstantinov IE, Hermansson U, Peterzen B. An approach to intracardiac needles.

Asia Pacific Heart J 1997;6(2):24-7.

1998

9. Peterffy A, Konstantinov IE. Resection of distal tracheal and carinal tumors with the aid of cardiopulmonary bypass.

Scand Cardiovasc J 1998;32(2):109-112 .

10. Konstantinov IE. Nikolai S. Korotkov: a story of an unknown surgeon with an immortal name.

Surgery 1998;123(4):371-81.

11. Konstantinov IE. A mystery of Vladimir P. Demikhov: the 50th anniversary of the first intrathoracic transplantation.

Ann Thorac Surg 1998;65:1171-7 .

12. Konstantinov IE. The life and death of professor Alexander P. Borodin: surgeon, chemist, and great musician.

Surgery 1998;123(6):606-16.

13. Hermansson U, Konstantinov IE, Aren C. Video-assisted thoracic surgery (VATS) lobectomy: the initial Swedish experience.

Semin Thorac Cardiovasc Surg 1998;10(4):285-90.

14. Konstantinov IE, Peterffy A. Distal tracheal tumor resection with cardiopulmonary bypass: revival of an old technique?

Ann Thorac Surg 1998; 66:1865-6.

1999

15. Thubrikar MJ, Konstantinov IE, Selim GA, Gong GG, Fowler B, Robicsek F. The influence of sizing on the dynamic function of the free-hand implanted porcine aortic homograft: an in vitro study. *J Heart Valve Disease* 1999; 8(3):242-53.
16. Konstantinov IE, Alexi-Meskishvili VV. Cavo-pulmonary shunt: from the first experiments to clinical practice. *Ann Thorac Surg* 1999;68:1100-6.
17. Konstantinov IE. The last word on "A proper name for the internal mammary artery?". *Ann Thorac Surg* 1999;68:1440-41.

2000

18. Konstantinov IE, Alexi-Meskishvili VV. Early Italian contributions to cavopulmonary shunt procedures. *Ann Thorac Surg* 2000;69:311-2.
19. Konstantinov IE, Alexi-Meskishvili VV. Sergei Brukhonenko: Development of the first heart-lung machine for total body perfusion. *Ann Thorac Surg* 2000;69:962-6.
20. Konstantinov IE. In search for Alexander A. Maximow: a man behind the Unitarian theory of haematopoiesis. *Perspectives in Biology and Medicine* 2000;43(2):269-76.
21. Thubrikar MJ, Gong GG, Konstantinov IE, Selim GA, Fowler BL, Robicsek F. Influence of sizing and subcoronary implantation technique on the function of porcine aortic homograft. *J Med Eng Technol* 2000;24(4):173-80.
22. Konstantinov IE. Robert H. Goetz: a surgeon who did the first successful coronary artery bypass operation. *Ann Thorac Surg* 2000;69:1966-72.
23. Alexi-Meskishvili VV, Konstantinov IE. Yustin Y. Djanelidze and the first successful repair of an injured ascending aorta. *Texas Heart Inst J* 2000;27: 113-6.
24. Robicsek F, Konstantinov IE. Humer Hultl: the father of the surgical stapler. *J Med Biography* 2000;8:1-4.

2001

25. Konstantinov IE, Puga FJ. Surgical treatment of persistent esophageal compression by an unusual form of right aortic arch. *Ann Thorac Surg* 2001;72:2121-3.
26. Konstantinov IE, Hermansson U. Intrathoracic migration of Kirschner pins: is video-assisted thoracic surgery justified? *Ann Thorac Surg* 2001;72:668-9.
27. Konstantinov IE, Puga FJ, Alexi-Meskishvili VV. Thrombosis of intra and extracardiac conduits after modified Fontan operation in patients with azygous continuation of the inferior vena cava. *Ann Thorac Surg* 2001 Nov;72(5):1641-4.
28. Konstantinov IE, Mickleborough LL, Graba J, Merchant N. Intraventricular mitral annuloplasty technique for use with repair of posterior left ventricular aneurysm. *J Thorac Cardiovasc Surg* 2001;122:1244-7.
29. Konstantinov IE, Zehr KJ. Aortic root replacement in a patient with vancomycin-resistant *Enterococcus faecium* endocarditis and leukemia. *Chest* 2001 Nov; 120(5):1744-6.
30. Van Son J, Konstantinov IE. Wilhelm Ebstein and Ebstein's malformation. *Eur J Cardiothorac Surg* 2001 Nov;20(5):1082-5.

2002

31. Van Son J, Konstantinov IE. Burkhart Kommerell and Kommerell's diverticulum.
Texas Heart Inst J 2002;29:109-12.
32. Hakanson E, Konstantinov IE, Franson SG, Svedjeholm R. Management of life threatening hemoptysis: a review of the literature apropos two cases.
Br J Anaesthesia 2002; 88:291-5.
33. O'Blenes SB, Roy N, Konstantinov I, Bohn D, Van Arsdell GS. Vasopressin reversal of phenoxybenzamine-induced hypotension after the Norwood procedure.
J Thorac Cardiovasc Surg 2002;123:1012-3.
34. Konstantinov IE. Resection of Kommerell's diverticulum and left subclavian artery transfer does not always relieve symptoms.
Eur J Cardiothorac Surg 2002;22:1038-9.
35. Konstantinov IE. Fontan operation in a patient with separate hepatic venous drainage: is there a problem?
Ann Thorac Surg 2002;74:2228-9.
36. Konstantinov IE. Cardiology's 10 greatest discoveries.
Texas Heart Inst J 2002;29:344.

2003

37. Konstantinov IE, Van Arsdell GS, O'Blenes SB, Roy N, Campbell A. The retro-aortic innominate vein with coarctation of the aorta: surgical repair and embryology review.
Ann Thorac Surg 2003;75:1014-6.
38. Konstantinov IE, Coles JG. The role of intraoperative device closure in the management of muscular ventricular septal defects.
Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu 2003;6:84-9.
39. Alexi-Meskishvili VV, Konstantinov IE. Surgery for atrial septal defect: from the first experiments to clinical practice.
Ann Thorac Surg 2003;76:243-5.
40. Konstantinov IE, Zehr KJ. Mechanism and prevention of aortic insufficiency in a Marfan's patient after aortic root reconstruction using a graft with tailored sinuses.
Texas Heart Inst J 2003; 30(3):243-5.

2004

41. Fortuna RS, Ashburn DA, Konstantinov IE, Burkhart HM, De Oliveira N, Smallhorn JF, Williams WG, Van Arsdell GS. Atrioventricular septal defects: effect of bridging leaflet division on early valve function.
Ann Thorac Surg 2004;77(3):895-902.
42. Konstantinov IE, Coles JG, Boscarino C, Takahashi M, Goncalves J, Ritter J, Van Arsdell GS. Gene expression in children undergoing cardiac surgery for right heart obstructive lesions.
J Thorac Cardiovasc Surg 2004;127(3):746-54.
43. Konstantinov IE, Alexi-Meskishvili VV, Williams WG, Freedom RM, Van Praagh R. Atrial switch operation: past, present and future.
Ann Thorac Surg 2004;77:2250-8.
44. Li J, Stokoe J, Konstantinov IE, Edgell D, Cheung M, Kharbanda R, Redington AN. Continuous measurement of oxygen consumption during cardiopulmonary bypass: description of the method and first in-vivo observations.
Ann Thorac Surg 2004;77:1671-7.
45. Konstantinov IE. Circular vascular stapling in coronary surgery.
Ann Thorac Surg 2004;78:369-73.
46. Konstantinov IE. The return of the coronary stapler: will a new technique overcome an old obstacle?
J Thorac Cardiovasc Surg 2004;128:330-1.

47. Konstantinov IE, Arab S, Kharbanda RK, Li J, Cheung MM, Cherepanov V, Downey GP, Liu P, Cukerman E, Coles JG, Redington AN. The remote ischemic preconditioning stimulus modifies inflammatory gene expression in humans.

Physiol Genomics 2004;19(1):143-50.

48. Konstantinov IE. Vasili I. Kolesov: a surgeon to remember.

Texas Heart Inst J 2004;31:349-58.

49. Konstantinov IE, Lai L, Colan S, Williams WG, Li J, Jonas R, Van Praagh R. Atrioventricular discordance with ventriculoarterial concordance: a remaining indication for the atrial switch operation.

J Thorac Cardiovasc Surg 2004;128(6):944-5.

2005

50. Konstantinov IE, Benson LN, Caldarone CA, Li J, Shimizu M, Coles JG, Van Arsdell GS, Williams WG. A simple technique for interventional transcatheter completion of total cavopulmonary connection.

J Thorac Cardiovasc Surg 2005; 129(1):210-2.

51. McCrindle BW, Tchervenkov CI, Konstantinov IE, Williams WG, Neirotti R, Jacobs ML, Blackstone EH. Risk factors associated with mortality and reinterventions in 474 neonates with interruption of the aortic arch: a congenital heart surgeons society study.

J Thorac Cardiovasc Surg 2005; 129(2):343-50.

52. Yun TJ, Coles JG, Konstantinov IE, Al-Radi OO, Wald RM, Guerra V, de Oliveira NC, Van Arsdell GS, Williams WG, Smallhorn J, Caldarone CA. Conventional and sutureless technique for management of the pulmonary veins: evolution of indications from postrepair pulmonary vein stenosis to primary pulmonary vein anomalies.

J Thorac Cardiovasc Surg 2005;129(1):167-74.

53. Burkhart HM, Ashburn DA, Williams WG, Konstantinov IE, Benson L, Van Arsdell GS. A novel technique to prevent re-coarctation after the Norwood procedure.

J Thorac Cardiovasc Surg 2005;130:61-5.

54. Konstantinov IE, Rosapepe F, Dearani JA, Alexi-Meskishvili VV, Li J. A tribute to Giancarlo Rastelli.

Ann Thorac Surg 2005; 79(5):1819-23.

55. Konstantinov IE, Li J, Cheung MM, Shimizu M, Stokoe J, Kharbanda RK, Redington AN. Prior remote ischemic preconditioning of the recipient reduces myocardial ischemia-reperfusion injury of the denervated donor heart via a Katp channel-dependent mechanism: a porcine transplant model.

Transplantation 2005;79(12):1691-5.

56. Konstantinov IE. A new technique of repair of mitral paravalvular leak?

J Thorac Cardiovasc Surg 2005; 130(2): 614-5.

57. Alexi-Meskishvili VV, Konstantinov IE. Pioneering contributions of Alexander A. Vishnevsky and his team to cardiac surgery.

J Card Surg 2005;20(6):569-73.

58. Konstantinov IE, Arab S, Li J, Cheung MMH, Redington AN. The remote ischemic preconditioning modifies gene expression in mouse myocardium.

J Thorac Cardiovasc Surg 2005;130(5):1326-32.

59. Shimizu M, Nii M, Konstantinov IE, Li J, Redington AN. Isovolumic but not ejection phase tissue Doppler indices detect left ventricular dysfunction caused by coronary stenosis.

J Am Soc Echocardiogr 2005;18(12):1241-6.

60. Cheung MMH, Konstantinov IE, Redington AN. Late complications of repair of tetralogy of Fallot and indications for pulmonary valve replacement.

Semin Thorac Cardiovasc Surg 2005;17(2):155-9.

61. Shimizu M, Konstantinov IE, Suess AM, Cheung M, McCrindle BW, Vogel M, Redington AN. Noninvasive analysis of myocardial function using high-resolution Doppler tissue echocardiography in rats.

J Am Soc Echocardiogr 2005; 18(5): 461-7.

62. Li J, Stokoe J, Konstantinov IE, Kharbanda RK, Redington AN. Evidence for a significant myocardial contribution to total metabolic burden during hypothermic cardiopulmonary bypass.

Perfusion 2005;20(5):277-83.

2006

63. Konstantinov IE, Karamlou T, Blackstone EH, Mosca RS, Lofland GK, Caldarone CA, Williams WG, McCrindle BW. Truncus arteriosus associated with interrupted aortic arch in 50 neonates: a congenital heart surgeons society study.

Ann Thorac Surg 2006;81(1):214-22.

64. Alexi-Meskishvili VV, Konstantinov IE. Sergei S. Yudin: an untold story.

Surgery 2006;139(1):115-22.

65. Li J, Konstantinov IE, Redington AN, Van Arsdell GS. Assumed oxygen consumption in the determination of cardiac output in children after cardiac surgery.

J Thorac Cardiovasc Surg 2006;131(1):251.

66. Saxena P, Konstantinov IE, Koniuszko M, Singh T, Newman MAJ. Persistent severe vasospasm in off-pump coronary bypass surgery: the value of intraluminal stenting.

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Abstracts:

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6. Konstantinov IE, Blackstone EH, Mosca RS, Lofland GK, Caldarone CA, Williams WG, McGrindle BW. Truncus arteriosus associated with interrupted aortic arch in 50 neonates: a congenital heart surgeons society study.

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7. Cheung MM, Konstantinov IE, Kharbanda R, Shimizu M, Frndova H, Li J, Cox P, Holtby H, Smallhorn JF, Van Arsdell G, Redington AN. Remote ischemic preconditioning reduces myocardial injury in children undergoing open heart surgery.

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INVITED PRESENTATIONS

1. Congres des 20 ans de la Chirurgie Cardiaque, 25-26 April 2007, Nimes, **FRANCE**
2. 15th World Congress on Heart Disease, July 18-21, 2009 Vancouver, BC, **CANADA**
3. 5th World Congress of Paediatric Cardiology and Cardiac Surgery, June 21-26, 2009 Cairns, **AUSTRALIA**

BOARDS/COMMITTEES

International

Member of the Scientific Advisory Boards:

1. *International Academy of Cardiology*
2. *The 14th World Congress on Heart Disease, Toronto, ON, Canada, July 19-29, 2008*
3. *The 14th World Congress on Heart Disease, Vancouver, BC, Canada, July 24-27, 2010*

State

Member of the Counsel:

School of Surgery and Pathology, University of Western Australia

CURRENT MAJOR RESEARCH THEMES

1. Clinical application of remote ischemic preconditioning
2. Molecular mechanisms of remote ischemic preconditioning
3. Evaluation of inter-stage survival after stage 1 reconstruction of hypoplastic left heart syndrome
4. Outcomes of double aortic arch repair
5. Outcome of repair of pulmonary artery sling
6. Long-term results of Taussig-Bing anomaly repair
7. Long-term results of arterial switch operation

CURRENT CLINICAL ACTIVITIES

Full time consultant cardiac surgeon

ADDITIONAL TRAINING

Aortic Root Surgery: Homograft and Autograft Replacement

Conducted by: Prof. John Pepper/ Prof. Magdi Yacoub, The Royal College of Surgeons of England, London, UK

October 14-16, 1996

PREVIOUS EMPLOYMENT HISTORY

Past appointments:

Dec. 1, 2007- Associate Professor of Surgery, University of Western Australia
July, 2008

July 1, 2007- Consultant Cardiothoracic Surgeon, Cardiac Surgery Unit
June 30, 2008 Sir Charles Gairdner Hospital, Perth, WA 6009, Australia

Education:

- Jan. 15, 2007- **Fellow, Cardiothoracic Surgery, Royal Children's Hospital,**
June 31, 2007 **Flemington Road, Parkville, Melbourne, Australia**
- Jan. 15, 2006- **Senior Registrar, Cardiothoracic Surgery, Prince Charles Hospital**
Jan. 15, 2007 **Rode Road, Chermside, QLD 4032, Australia**
- Jan. 15, 2005- **Senior Registrar, Cardiothoracic Surgery, Sir Charles Gairdner**
Jan. 15, 2006 **Hospital, Verdun Street, Perth, WA 6009, Australia**
- July 1, 2002- **Cardiac Surgery Research Fellowship,**
Jan. 15, 2005 **Ph.D. thesis: "Gene Expression in Cardiac Surgery: Impact of**
Ischaemia and Re-perfusion"
Hospital for Sick Children, Univ. of Toronto, Toronto, Canada
- July 1, 2001- **Pediatric Cardiac Surgery Clinical Fellowship, Hospital for Sick**
June 30, 2002 **Children, University of Toronto, Toronto, Canada**
- July 1, 2000- **Cardiac Surgery Clinical Fellowship, Toronto General Hospital,**
June 30, 2001 **University of Toronto, Toronto, Canada**
- June 30, 1999- **Advanced Cardiothoracic Surgery Clinical Fellowship,**
July 1, 2000 **Mayo Clinic, Rochester, MN 55905, USA**
- July 1, 1998- **Pediatric Cardiac Surgery Clinical Fellowship, The Heart Institute for**
June 30, 1999 **Children, Hope Children's Hospital, Oak Lawn, Chicago, IL 60453, USA**
- July 1, 1997- **Clinical Fellowship in Thoracic and Cardiovascular Surgery**
June 30, 1998 **The Carolina Heart Institute, 1000 Blythe Blvd., Charlotte, NC 28232**
- June 1, 1994 - **Fellowship in Thoracic and Cardiovascular Surgery**
July 1, 1997 **University Hospital, S-581 85 Linkoping, SWEDEN**
- July 1, 1992- **Internship/Residency in Thoracic and Cardiovascular Surgery,**
Jan 1, 1997 **St.Petersburg Cardiac Center, Pokrov Hospital,**
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- July 1, 1991 **Internship in General Surgery**
June 1, 1992 **Military Medical Academy, St. Petersburg, RUSSIA**
- 1986-1992 **Military Medical Academy,**
Lebedeva 6, 194044 St. Petersburg, RUSSIA
Graduation: 20 June 1992

REGISTRATION

- INACTIVE: North Carolina Graduate Medical Training License # 78890**
From June 25, 1997 to June 30, 1998
- Illinois Medical Temporary License # 125-038765**
From July 21, 1998 to July 21, 1999
- Minnesota Board of Medical Practice Residency Permit # 13861**
From June 26, 1999 to July 30, 2000
- College of Physicians and Surgeons of Ontario, Certificate of registration**
75348 From June 31, 2000
- Medical Board of Western Australia, Registration**

From January 1, 2005 to January 1, 2006, July 1, 2007 to June30, 2008

Medical Board of Queensland, Registration

From January 15, 2006 to January 20, 2007

ACTIVE: ***Russian Medical License and Full Registration # 225***

Issued June 20, 1992 - valid indefinitely

New Jersey Full Medical License

From January 2006 - current

Medical Practitioners Board of Victoria, General Registration

MPG 366311

July 1, 2008 – Current

PERSONAL

Single. Citizen of Russia. Citizen of Canada. Citizen of Australia.