

## Curriculum Vitae

### PART I: General Information

**DATE PREPARED:** August 17, 2010

**Name:** Pedro J. del Nido, M.D.

**Current Hospital Appointment:**

Chief, Department of Cardiac Surgery, Children's Hospital Boston, Boston, Massachusetts  
Senior Associate in Cardiac Surgery, Children's Hospital Boston, Boston, Massachusetts

**Current Academic Appointment:**

William E. Ladd Professor of Child Surgery, Harvard Medical School, Boston, Massachusetts

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**Place of Birth:** Santiago, Chile

**Education:**

1969-1973	B.A. (Honors)	University of Wisconsin, Madison, Wisconsin (Biochemistry)
1973-1977	M.D.	University of Wisconsin Medical School, Madison, Wisconsin
1977-1982	Residency, General Surgery,	Boston University Medical Center, Boston, MA
1982-1983	Senior Research Fellowship, Cardiovascular Surgery,	The Banting Institute University of Toronto, Canada
1983-1985	Residency, Cardiothoracic Surgery,	University of Toronto, Toronto, Canada
1985-1986	Clinical Fellowship, Pediatric Cardiovascular Surgery,	The Hospital for Sick Children Toronto, Canada

**Licensure and Certification:**

1977	National Board of Medical Examiners
1978	Massachusetts Medical License - #43587
1983	American Board of Surgery – Diplomate (Re-certified 1993, 2006)
1986	Illinois Medical License - #036-72962
1986	American Board of Thoracic Surgery – Diplomate (Re-certified 2006)
1986	Royal College of Surgeons of Canada - Fellow
1989	Pennsylvania Medical License - #MD-043424-E

**Academic Appointments**

1986-1989	Assistant Professor of Surgery and Pediatrics, University of Illinois, Chicago, Illinois
1989-1992	Assistant Professor of Surgery, University of Pittsburgh, Pittsburgh, Pennsylvania
1992-1994	Associate Professor of Surgery, University of Pittsburgh, Pittsburgh, Pennsylvania
1994-2001	Associate Professor of Surgery, Harvard Medical School, Boston, Massachusetts
2001-present	Professor of Surgery, Harvard Medical School, Boston, Massachusetts
2004-present	William E. Ladd Professor of Child Surgery, Harvard Medical School

**Hospital or Affiliated Institution Appointments:**

1986-1989	Staff Surgeon, Division of Cardiothoracic Surgery, University of Illinois Hospital, Chicago, Illinois
1989-1994	Staff Surgeon, Division of Cardiothoracic Surgery, Children's Hospital, Pittsburgh, PA
1994-Present	Senior Associate in Cardiac Surgery, Children's Hospital Boston, Boston, Massachusetts
2002-Present	Chief, Department of Cardiac Surgery, Children's Hospital Boston, Boston, Massachusetts

**Other Professional Positions and Major Visiting Appointments:**

1990-1994	Associate Director, Pediatric Heart Transplant Program, Dept. of Surgery, University of Pittsburgh, PA
1989-1994	Co-Director, Extracorporeal Membrane Oxygenator (ECMO) Support Program, Children's Hospital, Pittsburgh, PA
1990-1994	Director, Neonatal Heart Transplant Program, Children's Hospital, Pittsburgh, PA

**Hospital and Health Care Organization Service Responsibilities:**

1986-1989	Staff Pediatric Cardiothoracic Surgeon, University of Illinois Hospital, Chicago, Illinois
1989-1994	Staff Pediatric Cardiothoracic Surgeon, Children's Hospital, Pittsburgh, Pennsylvania
1994-present	Senior Associate in Cardiac Surgery, Children's Hospital Boston, Boston, Massachusetts

**Major Administrative Responsibilities:**

1994-present	Director, Cardiac Surgery Research Laboratory, Children's Hospital, Boston, MA
2004-present	President, CHMC Cardiovascular Surgery Foundation, Boston, MA

**Major Committee Assignments:**

Harvard Medical School:

1999	Planning Committee, Harvard Adults with Congenital Heart Disease Service Chair, Inpatient Sub-Committee
2006-7	Chair Search Comm., Director Pediatric Cardiac Bioengineering Initiative

Children's Hospital Boston:

1998-2003	Institutional Animal Care and Use Committee – Member
2004-present	ARCH Steering Committee – Member
2004-present	Surgical Executive Committee- Member

National Organizations:

1992-1996	Council on Cardiovascular and Thoracic Surgery: Executive Committee - American Heart Association
1993	Minority Institution and MBRS Special Emphasis Panel - Member, NIH-NIGMS
1996-1998	National Affiliate Research Committee: Study Section C - Co-Chairman, American Heart Association
1997	Mitochondrial Cardiomyopathy Special Emphasis Panel - Member, NIH-NHLBI
1997-2001	NIH-NHLBI, Surgery and Bioengineering Study Section - Member
1999-2002	Scientific Sessions Program Committee - Member, Council on Cardiovascular and Thoracic Surgery, American Heart Association
2000	Congenital Cardiac Surgery Seminar – Chair, American Association for Thoracic Surgery Annual Congress
2001-2005	Surgical Forum Committee – Cardiothoracic Surgery, American College of Surgeons
2001	NIH-Center for Scientific Review - Cardiovascular Sciences Scientific Boundaries Panel
2002-2006	Council on Cardiovascular and Thoracic Surgery: Executive Committee - American Heart Association

2002-2007	Scientific Advisory Committee – Pittsburgh NMR Center for Biologic Research, Carnegie Mellon University (NIH-NCRR)
2002-2004	Cardiac Surgery Biology Club (AATS) – Program Chair
2004-2006	Cardiac Surgery Biology Club (AATS) - President
2002-2004	NIH-CSR, Surgery and Bioengineering Study Section - Chair
2005-2007	Workforce on Congenital Heart Surgery – Society of Thoracic Surgeons - Chair
2006-present	Society of Thoracic Surgeons – Board of Directors – member
2008	NIH-CSR, Myocardial Ischemia and Metabolism Study Section – ad hoc member
2003-2009	AATS - Scientific and Government Affairs Comm. – Chair
2009	Thoracic Surgery for Research Foundation, Development Committee - Member

### Professional Societies:

(Year of initiation)

1986	American Section, International Society for Heart Research - Member
1987	Association for Academic Surgery - Senior Member
1989	American College of Chest Physicians - Fellow
1989	American College of Surgeons - Fellow
1990	Pediatric Cardiac Surgeon's Society - "LUNAR SOCIETY" - Founding Member
1991	Society of Thoracic Surgeons - Member
1992	Congenital Heart Surgeon's Society - Member
1993	Society of University Surgeons - Senior Member
1995	American Association for the Advancement of Science
1996	Cardiac Surgery Biology Club - Member
1998	American Association for Thoracic Surgery - Member

### Editorial Boards:

1992-2000	Member - Editorial Board, Pediatric Cardiology
1999-2003	Member - Editorial Board, Cardiothoracic Digest
2001-2004	Member – Editorial Board, Pediatric Critical Care Medicine
2001-2007	Member – Editorial Board, Annals of Thoracic Surgery
2007-present	Associate Editor, The Journal of Thoracic and cardiovascular Surgery

Ad hoc reviewer: American Journal of Physiology: Heart and Circulatory Physiology  
 Cardiovascular Research  
 Circulation  
 Circulation: Surgical Issue  
 European Journal of Thoracic and Cardiovascular Surgery  
 Journal of the American College of Cardiology  
 Journal of Molecular and Cellular Cardiology  
 Journal of Surgical Research  
 Journal of Heart and Lung Transplantation

### Awards and Honors:

1972	A. W. Peterson Award for Academic Achievement in the Area of Biochemistry
1973	Federal Research Fellowship Grant - Organic Photochemistry
1973-1975	Advanced Opportunity Fellowship
1982-1983	J. H. Cameron Scholarship, The Banting Institute, University of Toronto, Toronto, Canada
1985-1986	Canadian Heart Foundation - Senior Research Fellowship
1986	L. J. Tisdall Research Award – The Hospital for Sick Children - Toronto, Canada
1988	3M Non-tenured Faculty Research Award, 3M, Sarns, Inc.
1992	Michael E. Miller Young Investigator Award - Children's Hospital, Pittsburgh, PA

## PART II: Research, Teaching and Clinical Contributions

A. Narrative report of Research, Teaching, and Clinical Contributions

My laboratory research work has focused on two areas related cardiac surgery:

The first area involves investigation of mechanisms responsible for decreased tolerance to ischemia in hypertrophied myocardium and the role angiogenesis plays in progression of hypertrophy to heart failure. Currently I am investigating the role of Hypoxia Inducible Factor in the lack of angiogenic response in pressure overload hypertrophy and failure.

The second area of investigation aims to develop techniques for performing reconstructive surgery inside the beating heart using 3-D echocardiography. This project is a research partnership between ourselves, two engineering laboratories and industry and proposes to design and implement new technology and instrumentation to facilitate repair of intracardiac defects, thus obviating the need for open heart surgery.

My clinical research activities include a randomized prospective trial comparing two surgical approaches to patients with repaired tetralogy of Fallot who present with right heart failure. This is part of a study conducted with the support of a Clinical Center grant from NHLBI.

My teaching activities include supervising pre- and post-doctoral research fellows working in my laboratory and instructing clinical residents and fellows in pediatric cardiac surgery. I actively participate in didactic conferences covering laboratory and clinical investigation, and in continuing medical education courses organized by the Departments of Pediatric Cardiology and Pediatric Cardiac Surgery.

My clinical activities include performing surgical procedures to repair all forms of congenital heart defects in children and adults, including heart transplantation and mechanical circulatory support of children with end-stage heart failure. I have also developed techniques for performing minimally invasive cardiac surgery to correct simple and complex heart cardiac defects in infants and children.

#### B. Funding Information (\* - active grants)

1987-1989	Chicago Heart Association, Principal Investigator, " <i>Oxygen Mediated Reperfusion Injury in the Immature Myocardium</i> "
1989-1991	Children's Hospital of Pittsburgh, Grant-in-Aid, Principal Investigator, " <i>Cytosolic Calcium in Ischemia</i> "
1989-1991	American Heart Association - Western Pennsylvania Affiliate, Grant-in-Aid, Principal Investigator, " <i>Cytosolic Calcium Accumulation During Ischemia in Immature Myocardium</i> "
1992-1995	American Heart Association - National Center, Grant-in-Aid, Principal Investigator, " <i>Cardiac Hypertrophy and Surgical Ischemia</i> "
1992-1996	National Institutes of Health (NHLBI), Principal Investigator, " <i>The Stunned Heart and Cardiac Surgery: Ca<sup>2+</sup> and Energetics</i> " (R29-HL46207)
1997-2000	American Heart Association - National Center, Grant-in-Aid, Principal Investigator, " <i>Glucose Metabolism in the Hypertrophied Heart During Surgical Ischemia</i> " (9650407N)
1996-2001	National Institutes of Health (NHLBI), Principal Investigator, " <i>The Stunned Heart and Cardiac Surgery: Protein Kinase C</i> " (RO1-HL46207)
1999-2004	National Institutes of Health (AI), Co-Investigator, " <i>Monitoring Immune Cell Migration by In-Vivo MRI in Rats</i> " (P.I. - Ho, RO1-AI46971)
2000-2005	National Institutes of Health (NHLBI), Co-Investigator, " <i>Mechanisms of Cytokine Injury to Myocardium in Surgery</i> " (P.I. - McGowan, R01-HL52589)
2000-2004	National Institutes of Health (NHLBI), Principal Investigator, " <i>Glucose Metabolism in the Hypertrophied Heart During Surgical Ischemia</i> " (RO1 - HL63095)

2001-2007	National Institutes of Health (NHLBI), Principal Investigator, <i>“The Stunned Heart and Cardiac Surgery: Apoptosis/Necrosis”</i> (competing continuation of RO1-HL46207)
2002-2007	National Institutes of Health (NHLBI), Principal Investigator. <i>“Analysis of Beating Heart Intracardiac Surgery”</i> R01 (HL71128)
2007- 2008	U. Massachusetts: Massachusetts Technology Transfer Center, Principal Investigator, <i>“Video-assisted Cardioscopy Port for Beating-heart Intracardiac Surgery”</i>
2003-2013*	National Institutes of Health (NHLBI), Principal Investigator, <i>“Image Guided Intracardiac Beating Heart Surgery”</i> (RO1 – HL073647) Bioengineering Research Partnership
2004-2009*	National Institutes of Health (NHLBI), Principal Investigator, <i>“Angiogenesis, Cardiac Hypertrophy and Surgical Ischemia”</i> (RO1 – HL63095)
2007-20012*	NIH - National Heart, Lung, and Blood Institute, Consortium-Principal Investigator <i>“Steerable MEMS Instruments for Precise Intracardiac Surgery”</i> . R01 (HL87797) (Dupont – Project P.I.)
2007-2008*	US Army Medical Research Acquisition Activity (MGH-Parrish), <i>“Cardio-port for Minimally Invasive Intra-cardiac Beating Heart Surgery”</i> , Principal Investigator Children’s Hospital Medical Corporation, W81XWH-07-2-001
2003-2009*	NIH – National Heart Lung and Blood Institute <i>“Randomized Trial of Pulmonary valve Replacement in TOF”</i> (Geva), <i>“SSCOR in Pediatric Heart Development and Disease”</i> Co-Investigator; Children’s Hospital Boston (Newburger), P50 (HL074734)
2009-2014*	NIH- National Heart Lung and Blood Institute, Principal Investigator, <i>“3D MRI-Based Modeling for Computer-Aided Right Ventricle Remodeling Surgery”</i> (RO1 - HL089269)
2009-2011	Food and Drug Administration (FDA)-Principal Investigator, <i>“Pediatric Cardiovascular Device Consortium”</i> (1P50FD003792-01)

#### C. Report of Current Research Activities

- *“Image Guided Intracardiac Beating Heart Surgery”* This a Bioengineering Research Partnership to develop novel imaging techniques and instrument modification for performing reconstructive surgery inside the beating heart. The partnership includes two engineering laboratories (Dupont-Boston U.; Howe-Harvard DEAS), and industry (Philips Medical Systems) working on modification of ultrasound imaging hardware, image processing, instrument modification, and device development. Role – Principal Investigator
- *“Angiogenesis, Cardiac Hypertrophy and Surgical Ischemia”* This project aims to study the role of Hypoxia Inducible factor in capillary growth during the progression of pressure overload hypertrophy. Role – Principal Investigator.
- *“3D MRI-Based Modeling for Computer-Aided Right Ventricle Remodeling Surgery”* This project proposes to develop a mathematical model of the right ventricle in patients late after repair of Tetralogy of Fallot and a tool for planning surgical reconstruction of the right ventricle. Role – Principal Investigator.

#### D. Report of Teaching

##### 1. Local Contributions

##### Invited Teaching Seminars

1987-1989 University of Illinois: Chicago: Core curriculum lectures "Cardiac Surgery" for 3rd year medical students

#### Continuing Medical Education

1999 First Hispano-Latin American Conference in Pediatric Cardiac Surgery, San Juan, P.R., Co-Director and Lecturer

#### Advisory and Supervisory responsibility in Clinical Setting

1986-1989 University of Illinois Hospitals: Supervisory and teaching role for medical students, residents and fellows in pediatric cardiac surgery

1989-1994 University of Pittsburgh Medical School, Children's Hospital: Supervisory and teaching role for medical students, residents and fellows in pediatric cardiac surgery

1994-Present Children's Hospital Boston, Harvard Medical School: Supervisory and teaching responsibility to residents and clinical fellows in the area of pediatric cardiac surgery

#### Teaching Leadership Role in Department

1997-Present Cardiovascular Surgery Department "Research Work in Progress Seminars" - organize monthly seminars covering research topics relevant to current laboratory investigation.

#### Advisees or trainees in Laboratory Setting (*Duration of training, Name, and Current Position*)

1987-1989 Ernesto Jimenez, M.D., Cardiothoracic Surgeon, Tampa, Florida

1986-1988 Hiroomi Nakamura, M.D., Assistant Professor, Kobe University, Kobe, Japan

1989-1991 K. Eric Sommers, M.D., Associate Professor, Department of Surgery, University of Tampa, Florida

1990-1992 Akihiko Ohkado, M.D., Cardiothoracic Surgeon, Tohoku University, Sendai, Japan

1992-1994 Tzu-Chen Yeh, PhD, Assistant Professor, Department of Radiology, University of Taipei, Taiwan

1992-1995 Koh Takeuchi, M.D., Assistant Professor, Dept. of Cardiovascular Surgery, University of Tokyo, Japan

1993-1995 Percival Buenaventura, M.D., Associate Professor, Department of Surgery, University of Pittsburgh, PA

1999-2003 Ingeborg Friehs, M.D., Instructor, Dept. of Cardiac Surgery, Harvard Medical School. "Regulation of Angiogenesis in Hypertrophied Myocardium"

1998-2000 Mamoru Munakata, M.D., Cardiothoracic Surgeon, Hirosaki University, Japan. "Phospholipase C Activity in Post-ischemic Myocardium"

1998-2001 Christof Stamm, M.D., Assistant Professor, University of Rostock Medical School, Germany. "Myocardial Protein Kinase C Modulation of Calcium/Force relationship in Ischemia/Reperfusion"

2001-2003 Meena Nathan, M.D.; Neena Braunwald Research Fellowship recipient, Harvard Medical School. "Mitochondrial function in Hypertrophied Myocardium". Attending Pediatric Cardiothoracic Surgery; Department of Cardiothoracic Surgery; Beth Israel Medical Center, Children's Hospital of New Jersey, New Jersey

- 2001-2003      Jeremy Cannon, M.D., National Research Service Award recipient, "Telerobotic Minimally Invasive ASD Repair", Harvard Medical School – Massachusetts Institute of Technology. Resident in Surgery, Harvard Medical School
- 2003-2006      Nathalie Roy, M.D.; Thoracic Surgery Research Foundation Fellowship recipient "Dobutamine induced apoptosis in the post-ischemic heart"
- 2003-2005      Yoshihiro Suematsu, M.D.; Instructor of Surgery, University of Tokyo, Japan "Image guided beating heart intracardiac surgery"
- 2005-2007      Kazuo Kitahori, M.D.; Instructor of Cardiovascular Surgery, University of Tokyo. "*Mitochondrial function in pressure overload RV hypertrophy*"

2. Regional, National and International contributions

Invited Presentations (2008 and 2009)

- 11/28-12/4/2009      Congreso Chileno de Cardiología y Cirugía; Invited Lecturer; Viña del Mar, Chile
- 11/15-11/16/2009      American Heart Association, Scientific Sessions; Invited Speaker Orlando, Florida
- 10/29/2009              FDA Workshop; Participant as Principal Investigator due to recent FDA Research Award; Baltimore, MD
- 10/21-25/2009        XIth Annual Conference of Pediatric Cardiac Society of India; Invited Lecturer; PGIMER, Chandigarh, India
- 10/25-10/27/2009      Escort Heart Institute, Invited Professor; New Delhi, India
- 9/30-10/5/2009        Congreso Argentino de Cardiología; Invited Lecturer; Buenos Aires, Argentina
- 7/8-11/2009            Congenital & Structural Interventions; Invited Speaker; Frankfurt, Germany
- 6/14/2009              Katkov-Lundeen Visiting Professorship in Pediatric Cardiology & Cardiac Surgery; Visiting Professor; Minneapolis, MN
- 5/14/2009              Heart Rhythm 2009, 30<sup>th</sup> Annual Scientific Sessions; Invited Lecturer: Invited Speaker; Boston, MA
- 5/7-13/2009            AATS Annual Meeting; Chair/Attendee of various committee meeting; Boston, MA
- 5/5/2009                New England Research Institute; Meeting Chair; Bethesda, MD
- 4/5-4/7/2009            New England Research Institute, Perioperative Working Group; Meeting Chair; Bethesda, MD
- 3/23-3/25/2009        Workshop IPC & ISHAC Joint Meeting 2009; Invited Lecturer; Milano, Italy
- 3/5-6/2009              AATS Grant Writing Workshop; Course Director; Bethesda, MD
- 4/24/2009              Adult Congenital Heart Association; Invited Speaker; Boston, MA
- 2/16/2009              Great Ormond Street Hospital; Visiting Professor/Teaching Surgery; London, United Kingdom
- 1/24-26/2009          Society of Thoracic Surgeons; Attendee; San Francisco, CA

11/5-11/10/2008	10 <sup>th</sup> Annual Conference of the Pediatric Cardiac Society of India; Invited Lecturer; Kochi, Kerala, India
10/29/2008	CIMIT Innovations Congress; Panel Moderator; Boston, MA
6/29-7/1/2008	NIH/SBIR Grant Review; NIH Grant Reviewer; San Francisco, CA
6/22-24/2008	8 <sup>th</sup> Annual Bioengineering Partnership Grantee Meeting; BRP Grant Report on "Image-guided Intracardiac Beating Heart Surgery" to Panel; Bethesda, MD
5/28-31/2008	2 <sup>nd</sup> Asia-Pacific Congress of Pediatric Cardiology & Cardiac Surgery; Invited Lecturer; Jeju, Korea
5/23/2008	NIH/NHLBI Meeting with FDA; Invited Meeting Participant; Re: FDA Discussion on Very Small Trials of Prototype Devices; Washington, DC
05/09-12/2008	88 <sup>th</sup> Annual AATS Meeting; Meeting Participant, San Diego, CA
01/26-29/2008	44 <sup>th</sup> STS Annual Meeting & Exhibition; Meeting Participant; Fort Lauderdale, FL
01/14/2008	Pediatric Cardiology Society of Greater New York; Janet Baldwin Speaker; "Atrioventricular Valve Reconstruction in Congenital Heart Disease"; New York, NY

#### E. Report of Clinical Activities

##### 1. Description of clinical practice:

My current clinical practice involves the surgical management of children with congenital or acquired heart disease and adults with congenital heart defects. My practice has always been at academic teaching institutions and initially included both acquired and congenital hearts defects in children and adults. Since 1989, when I joined the faculty at the University of Pittsburgh, I have concentrated my clinical activities exclusively in pediatric cardiac surgery and adults with congenital heart defects.

##### 2. Patient load:

Currently, I perform approximately 300 congenital cardiac surgical procedures in children and adults per year. Around 70% are corrective procedures for complex congenital defects and include cardiac transplantation.

### PART III: Bibliography

#### Original Articles:

1. Wilson G J, MacGregor D C, Klement P, Lee J M, del Nido PJ, Wong E, Leidner J. Anisotropic polyurethane non-woven conduits: A new approach to the design of a vascular prosthesis. Proceedings, Amer. Society for Artificial Internal Organs, 1983; 29:260-268.
2. Klement P, del Nido PJ, Wilson GJ. The use of cardiac pacemakers in veterinary practice. Compendium of Continuing Education for the Practicing Veterinarian, 1984; 6:893-902.
3. del Nido PJ, Wilson GJ, Mickle DAG, Klement P, Tait GA. The role of cardioplegic buffering in myocardial protection: A biochemical and histopathological assessment. J Thorac Cardiovasc Surg, 1985; 89:689-699.

4. Mickle DG, del Nido PJ, Wilson GJ, Harding RD, Romaschin AD. Exogenous substrate preference of the post-ischemic myocardium. *Cardiovasc Res*, 1986; 20:256-263.
5. del Nido PJ, Williams WG, Wilson GJ, Coles JG, Moes CAF, Hosokawa Y, McLaughlin PR, Fowler RS, Izukawa T, Rowe RD, Trusler GA. Synthetic patch angioplasty for repair of coarctation of the aorta: Experience with aneurysm formation. *Circulation*, 1986; 74:132-36.
6. Klement P, del Nido PJ, Mickleborough L, MacKay C, Klement G, Wilson GJ. Technique and postoperative management for successful cardiopulmonary bypass and open-heart surgery in dogs. *JAVMA* 1987; 190:869-874.
7. Klement P, Feindel CM, Scully HE, Mesher E, Klement G, del Nido PJ, Wilson GJ. Mitral valve replacement in dogs. Surgical technique and postoperative management. *Veterinary Surgery* 1987; 16:231-237.
8. del Nido PJ, Williams WG, Villamater J, Benson LN, Coles JG, Trusler GA. Changes in pericardial surface pressure during pulmonary hypertensive crisis after cardiac surgery. *Circulation* 1987; 76:III93-96.
9. del Nido PJ, Mickle DAG, Williams WG, Wilson GJ, Benson LN, Coles JG, Trusler GA. Evidence of myocardial free radical injury during elective repair of tetralogy of Fallot (TOF). *Circulation* 1987; 76:V174-179.
10. del Nido PJ, Benson LN, Mickle DAG, Kielmanowicz S, Coles JG, Wilson GJ. Impaired left ventricular post-ischemic function and metabolism in chronic right ventricular hypertrophy (RVH). *Circulation* 1987; 76:V168-173.
11. del Nido PJ, Mickle DAG, Wilson GJ, Benson LN, Weisel RD, Coles JG, Trusler GA, Williams WG. Inadequate myocardial protection with cold cardioplegic arrest during repair of tetralogy of Fallot. *J Thorac Cardiovasc Surg* 1988; 95:223-229.
12. del Nido PJ, Swan PR, Benson LN, Bohn D, Charlton MC, Coles JG, Trusler GA, Williams WG. Successful use of intra-aortic balloon pumping in a 2 Kg. infant. *Ann Thorac Surg* 1988; 46:574-576.
13. Nakamura H, del Nido PJ, Illes RW, Krukenkamp IB, Silverman NA, Levitsky SP. Preservation of postischemic cardiac function by deferoxamine is age dependent. *Surg Forum* 1988; 39:200-202.
14. del Nido PJ, Nakamura H, Mickle DAG, Illes RW, Romaschin A, Levitsky S. Maturational difference in functional/metabolic sequelae of free radical formation on reperfusion. *J Surg Res* 1989; 46:532-536
15. Illes RW, Silverman NA, Krukenkamp IB, del Nido PJ, Levitsky S. Amelioration of post-ischemic stunning by deferoxamine-blood cardioplegia. *Circulation*, 1989; 80:III30-35.
16. del Nido P, Goldman, BS. Temporary epicardial pacing after open heart surgery: complications and prevention. *J. Card Surg* 1989; 4:99-103.
17. Fischer DR, Etedgui JA, Park SC, Siewers RD, del Nido PJ. Carotid artery approach for balloon dilatation of aortic valve stenosis in the neonate. *J Amer Coll Cardiol* 1990; 15:1633-6.
18. Jimenez E, del Nido PJ, Sarin M, Nakamura H, Feinberg H, Levitsky, S. Effects of low extracellular calcium on cytosolic calcium and ischemic contracture. *J Surg Res*. 1990; 49:252-55.
19. Nakamura H, del Nido PJ, Jimenez E, Sarin M, Levitsky S, Feinberg H. Deferoxamine fails to improve post-ischemic cardiac function in hypertrophied hearts. *Circulation*, 1990; 82:IV328-331.
20. del Nido PJ, Nakamura H, Jimenez E, Sarin M, Feinberg H, Levitsky S. The effect of cardiac hypertrophy on changes in cytosolic free calcium concentration during ischemia. *Surgery* 1990 108:312-17.

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22. Kumar S, Scagliotti H D, Fisher EA, del Nido PJ. Surgical correction of pulmonary atresia with ventricular septal defect and no central pulmonary arteries. *Am J Cardiol*, 1990; 65:261-63.
23. Anderson RH, Devine WA, del Nido PJ. Surgical anatomy of tetralogy of Fallot with pulmonary atresia rather than stenosis. *J Cardiac Surg*, 1991; 6:41-59.
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25. Sommers KE, Ohkado A, Wise B, Koretsky AP, Ho C, del Nido PJ. Pyruvate improves post-ischemic contractile function, energetic efficiency, and calcium regulation. *Surg Forum* 1991; 42:247-249.
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27. Armitage JM, Fricker FJ, del Nido PJ, Cipriani L, Starzl TE. The clinical trial of FK 506 as primary and rescue immunosuppression in pediatric cardiac transplantation. *Transpl Proc* 1991; 23:6.
28. Ghai V, del Nido PJ, Nakamura H, Fujii Y, Vidyasagar D, Wilson G. Improvement in oxygen tension and pulmonary blood flow with intermittent distal aortic compression during normoxia, hypoxia and hyperoxia in neonatal piglets. *Crit Care Med* 1991; 19:731-741.
29. Michaels MG, Wald ER, Fricker FJ, del Nido PJ, Armitage J. Toxoplasmosis in pediatric recipients of heart transplants. *Clinical Infectious Diseases* 1992; 14:847-51.
30. del Nido PJ, Dalton HJ, Thompson AE, Siewers RD. ECMO rescue in children during cardiac arrest following cardiac surgery. *Circulation* 1992; 86:II300-304.
31. Nakamura H, del Nido PJ, Jimenez E, Sarin M, Feinberg H, Levitsky S. Age related differences in cardiac susceptibility to ischemia/reperfusion injury: Response to deferoxamine. *J Thorac Cardiovasc Surg* 1992; 104:165-72.
32. Sommers KE, Ohkado A, Simplaceanu E, Koretsky AP, Ho C, del Nido PJ. The role of magnesium in post-ischemic cardiac dysfunction. *Surgery* 1992; 112:159-65.
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34. Grundl P, Miller S, del Nido PJ, Beerman L, Fuhrman B. Successful treatment of acute myocarditis using extracorporeal membrane oxygenation. *Crit Care Med* 1993; 21:302-304.
35. Armitage J, Fricker J, del Nido PJ, Starzl T, Hardesty R, Griffith B. A decade (1982 to 1992) of pediatric cardiac transplantation and the impact of FK 506 immunosuppression. *J Thorac Cardiovasc Surg* 1993; 105:465-473.
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37. Bando K, Konishi H, Komatsu K, Fricker FJ, del Nido PJ, Francalancia NA, Hardesty RL, Griffith BP, Armitage JM. Improved survival following pediatric cardiac transplantation in high-risk patients. *Circulation* 1993; 88:II218-23.
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