

## **CURRICULUM VITAE**

**NAME:** James E. Lock, M.D.

**DATE OF BIRTH:** November 3, 1949; Cleveland, Ohio

### **EDUCATION:**

1973 M.D. Stanford University, Palo Alto  
1969 A.B. Case Western Reserve University, Cleveland

### **POSTDOCTORAL TRAINING:**

#### **Internships and Residencies:**

1973-1974 Intern in Pediatrics – University of Minnesota, Minneapolis, MN  
1974-1975 Resident in Pediatrics – University of Minnesota, Minneapolis, MN

#### **Fellowships:**

1975-1977 Fellow in Clinical Cardiology, University of Minnesota, Minneapolis  
1977-1979 Research Fellow in Cardiac Physiology  
Department of Pediatrics, Hospital for Sick Children  
Toronto, Ontario, Canada

### **LICENSURE AND CERTIFICATION:**

1974 National Board of Medical Examiners  
1975 Minnesota State Medical License, #21993  
1978 American Board of Pediatrics, #022016  
1981 American Sub-Board of Pediatric Cardiology, #584  
1984 Massachusetts State Medical License, #52889  
1987 American Sub-Board of Pediatric Critical Care, #0086

### **ACADEMIC APPOINTMENTS:**

1979-1983 Assistant Professor of Pediatrics, University of Minnesota  
1983-1984 Associate Professor of Pediatrics, University of Minnesota  
1984-1993 Associate Professor of Pediatrics, Harvard Medical School  
1993-1995 Professor of Pediatrics, Harvard Medical School  
1995-present Alexander S. Nadas Professor of Pediatrics, Harvard Medical School

## **HOSPITAL APPOINTMENTS:**

1979-1984 Pediatrician – University of Minnesota, Minneapolis  
1979-1984 Staff Intensivist – University of Minnesota, Minneapolis  
1980-1984 Pediatric Director, Cardiac Catheterization Laboratory  
University of Minnesota, Minneapolis  
1984-1985 Director, Cardiac Catheterization Laboratory – Children’s Hospital, Boston  
1984-1989 Senior Associate in Cardiology – Children’s Hospital, Boston  
1989-1993 Chief, Clinical Cardiology – Children’s Hospital, Boston  
1993-present Chairman, Department of Cardiology – Children’s Hospital, Boston  
2002-2008 Physician-in-Chief – Children’s Hospital, Boston

## **AWARDS AND HONORS:**

1966-1969 National Merit Scholar  
1969 Phi Beta Kappa  
1981 March of Dimes, Basil O’Connor Award  
1983-1988 Established Investigator, American Heart Association  
1999 Nadas Lecturer, American Heart Association

## **BOARD MEMBERSHIP:**

1998-2008 Children’s Hospital Trust Board, Boston  
1999-present President & Chairman of the Board, Aldo R. Castaneda Foundation  
1999-2008 Finance Committee of the Board of Trustees, Children’s Hospital Boston  
2000-2009 Board of Directors, NMT Corporation, Boston  
2001-2003 Board of Directors, VMI Corporation, Ottawa  
2002-2008 Board of Trustees, Children’s Hospital Boston

## **MAJOR COMMITTEE ASSIGNMENTS:**

1983 NHLBI Respiratory and Applied Physiology Study Section (ad hoc)  
1987-1989 Executive Committee – Cardiovascular Diseases in the Young, AHA  
1988-1991 HMO Advisory Committee – Children’s Hospital, Boston  
1992-present Medical Staff Executive Committee – Children’s Hospital, Boston  
1993-1994 Search Committee, Chief of Cardiology – Beth Israel Hospital, Boston  
1993-1997 Operating Committee – Children’s Hospital, Boston  
1993-1998 Research Executive Committee – Children’s Hospital, Boston  
1995-1996 Search Committee, Chairman of Medicine – Children’s Hospital, Boston  
1995-1996 Chair, Search Committee, Director of Cardiovascular Research  
Children’s Hospital, Boston  
1995-1997 Executive Committee, Physician’s Organization – Children’s Hospital, Boston  
1995-1997 Member, Chairman’s Task Force – Children’s Hospital, Boston  
1995-1998 Finance Committee – Children’s Hospital, Boston  
1997-1998 Chair, Search Committee, Chairman of Radiology  
Children’s Hospital, Boston  
1997-2000 Cabinet – Children’s Hospital, Boston  
1999-2000 Search Committee, CEO – Children’s Hospital, Boston  
2000-2002 Subcommittee of Professors – Harvard Medical School  
2000-2002 NHLBI Task Force, Pediatric Cardiovascular Disease  
2002-2003 Search Committee, Chairman of Surgery – Children’s Hospital, Boston

## **EDITORIAL BOARDS:**

1985-present American Journal of Cardiology  
1990-present Cardiology  
1994-present Circulation  
2005-present American Heart Journal

## **MEMBERSHIP OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:**

1979-present American Heart Association, Council in Cardiovascular Disease in the Young  
1980-present American Thoracic Society  
1981-present American Physiologic Society  
1981-present Society for Pediatric Research

## **MAJOR RESEARCH INTERESTS:**

1. Catheter directed therapy in congenital and acquired heart disease
2. Cardiopulmonary physiology

## **PAST FUNDING**

1. Minnesota Heart Association Grant-in-Aid  
Vasoactive Agents in the Immature Pulmonary Circulation, 1980-1982 (P.I.)
2. March of Dimes Basil O'Connor Young Investigator Award, 1981-1983
3. NIH RO1, Balloon Dilatation of Congenital Cardiac Defects, 1982-1985 (P.I.)
4. AHA Grant-in-Aid  
Peptides in the Immature Pulmonary Circulation, 1983-1986 (P.I.)
5. Established Investigator Award, American Heart Association, 1983-1988
6. Various Small Industrial Grants  
(Bard, Boston Scientific, Cordis, Medtronic, NMT Medical), 1990-2000
7. NIH, Research Methods in Pediatric Heart Disease, 1996-2001 (P.I.)
8. NIH, Research Methods in Pediatric Heart Disease (2T 32 HL07572-123A)  
7/1/01-6/30/06 (P.I.)

## **U.S. PATENTS:**

#5,383,296 Re-expandable Endoprosthesis  
Date of Issue: 1/24/95

#5,451,235 Occluder and Method for Repair of Cardiac and Vascular Defects  
Date of Issue: 9/19/95

#5,486,193 System for the Percutaneous Transluminal Front End Loading Delivery of  
a Prosthetic Occluder  
Date of Issue: 1/23/96

#5,591,223 Re-expandable Endoprosthesis  
Date of Issue: 1/7/97

- #5,626,599 Method for the Percutaneous Transluminal Front-End Loading Delivery of a Prosthetic Occluder  
Date of Issue: 5/6/97
- #5,709,707 Self-Centering Umbrella-Type Septal Closure Device  
Date of Issue: 1/20/98
- #D533,270 Introducer Cannula and Cannula Straightener  
Date of Issue: 12/5/06
- #7,470,285 Transcatheter Delivery of a Replacement Heart Valve  
Date of Issue: 12/30/08

#### **PATENT APPLICATIONS PENDING**

1. PFO Occlusion Clip

#### **TEACHING EXPERIENCE:**

1. Director, Clinical Fellowship Training  
Children's Hospital, 1984-1993
2. Medical Students: Lecturer, Cardiovascular Pathophysiology Course  
Harvard Medical School, 1984-1988
3. Director, Daily Catheterization Conference – Children's Hospital, 1984-1995
4. Director, Cardiology-Cardiac Surgery Conference  
Children's Hospital, 1989-present
5. Chief's Ward Rounds, Cardiology Ward – Children's Hospital, 1990-1998

#### **PAST AND CURRENT TRAINEES:**

1. Thomas J. Kulik, M.D.  
Post Doctoral Training Area: Basic Research  
Training Period: 1979-1983  
Graduate Education: M.D., 1976 – University of Colorado  
Project Title: Pulmonary vascular effects of vasoactive intestinal peptide  
Current Position: Director, Pulmonary Hypertension Service  
Children's Hospital Boston  
Associate Professor of Pediatrics  
Harvard Medical School
2. Bradley P. Fuhrman, M.D.  
Post Doctoral Training Area: Basic Research  
Training Period: 1979-1980  
Graduate Education: M.D., 1976 – University of Pittsburgh  
Project Title: Cardiopulmonary effects of unilateral airway pressure changes in intact infant lambs  
Current Position: Professor of Pediatrics  
SUNY, Buffalo  
Director, Pediatric Intensive Care Unit
3. Thomas P. Green, M.D.  
Post Doctoral Training Area: Clinical Research

Training Period: 1979-1980  
Graduate Education: M.D., 1975 – Stanford University  
Project Title: Effect of furosemide on PDA in premature infants with RDS  
Current Position: Professor of Pediatrics  
Chair, Department of Pediatrics  
Northwestern University

4. Stanton B. Perry, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1983-1987  
Graduate Education: M.D., 1980 – University of Iceland  
Project Title: Transcatheter therapies  
Current Position: Associate Professor of Pediatrics  
Stanford Medical School  
Chief, Invasive Cardiology  
Packard Children's Hospital
5. David L. Wessel, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1985-1988  
Graduate Education: M.D., 1978 – Yale University School of Medicine  
Project Title: Fibrinolytic therapy for femoral arterial thrombosis after catheterization  
Current Position: Executive Director, Center for Hospital Based Specialties  
Children's National Medical Center  
Washington, DC
6. J. Philip Saul, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1984-1987  
Graduate Education: M.D., 1982 – Duke University Medical School  
Project Title: Balloon dilation angioplasty of postoperative aortic obstructions  
Current Position: Chief, Pediatric Cardiology & Chief Medical Officer  
Professor of Pediatrics  
Medical University of South Carolina
7. Stephen E. Lipshultz, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1984-1987  
Graduate Education: M.D., 1981 – Dartmouth Medical School  
Project Title: Are routine preoperative cardiac catheterization and angiography necessary before repair of ostium primum atrial septal defect?  
Current Position: Chairman of Pediatrics  
University of Miami School of Medicine
8. Michael F. Flanagan, M.D.  
Post Doctoral Training Area: Basic Research  
Training Period: 1984-1987  
Graduate Education: M.D., 1981 – University of Wisconsin  
Project Title: Myocardial angiogenesis and coronary perfusion in left ventricular pressure overload hypertrophy in lambs.  
Current Position: Division Chief, Pediatric Cardiology  
Dartmouth Hitchcock Medical Center

Associate Professor of Pediatrics  
Dartmouth Medical School

9. Abraham Rothman, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1985-1989  
Graduate Education: M.D., 1982 – University of California, San Diego  
Project Title: Balloon angioplasty for branch pulmonary artery stenosis  
Current Position: Professor of Pediatrics  
Chief, Division of Pediatric Cardiology  
University of Nevada School of Medicine
10. Michelle Mietus-Snyder, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1985-1991  
Graduate Education: M.D., 1982 – University of California, San Diego  
Project Title: Childhood systemic-pulmonary shunts: Subsequent suitability for Fontan operation  
Current Position: Assistant Professor of Pediatrics  
University of California, San Francisco
11. Lucy W. Arnold, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1985-1990  
Graduate Education: M.D., 1981 – Dartmouth Medical School  
Project Title: Transient unilateral pulmonary edema following successful balloon dilation of peripheral pulmonary artery stenosis  
Current Position: Assistant Professor of Pediatrics  
University of Massachusetts Medical School
12. Wolfgang Radtke, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1985-1988  
Graduate Education: M.D., 1980 – Kiel University Medical School, Germany  
Project Title: Percutaneous balloon valvotomy of congenital pulmonary stenosis using oversized balloons  
Current Position: Director, Cardiac Catheterization Laboratory  
DuPont Children's Hospital, Delaware
13. Philip J. Spevak, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1983-1986  
Graduate Education: M.D., 1980 – University of Iowa  
Project Title: Balloon angioplasty for non-rheumatic mitral stenosis in children  
Current Position: Associate Professor of Pediatrics  
Johns Hopkins School of Medicine  
Director, Pediatric Echocardiography

Johns Hopkins Medical Center

14. Jonathan J. Rome, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1986-1989  
Graduate Education: M.D., 1982 – Stanford University  
Project Title: Rehabilitation of diminutive pulmonary arteries in tetralogy of Fallot  
Current Position: Associate Professor of Pediatrics  
University of Pennsylvania Medical School  
Director, Cardiac Catheterization Laboratory  
Children's Hospital of Philadelphia
  
15. Gary F. Sholler, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1986-1987  
Graduate Education: M.D., 1979 – University of Sydney, Australia  
Project Title: Balloon dilation of congenital aortic stenosis  
Current Position: Chief, Pediatric Cardiology  
Camperdown Children's Hospital, Sydney, Australia
  
16. John K. Triedman, M.D.  
Post Doctoral Training Area: Interventional Electrophysiology  
Training Period: 1988-1991  
Graduate Education: M.D., 1985 – Harvard Medical School  
Project Title: Aortopulmonary chest wall collaterals after Fontan  
and bidirectional Glenn procedures  
Current Position: Associate Professor of Pediatrics  
Harvard Medical School
  
17. Nancy D. Bridges, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1988-1992  
Graduate Education: M.D., 1985 – New York University  
Project Title: Transcatheter closure of a patent foramen ovale  
after presumed paradoxical embolism.  
Current Position: Chief, Clinical Transplantation Section  
National Institutes of Health
  
18. Therese M. Giglia, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1987-1991  
Graduate Education: M.D., 1983 – SUNY, Buffalo  
Project Title: Management of right ventricular-dependent coronary circulation in  
pulmonary atresia with intact septum  
Current Position: Section Head, Pediatric Cardiology Inpatient Services  
Schneider Children's Hospital  
Assistant Professor of Pediatrics  
Albert Einstein College of Medicine
  
19. Kathy J. Jenkins, M.D.

Post Doctoral Training Area: Clinical Research  
Training Period: 1989-1992  
Graduate Education: M.D., 1986 – Harvard Medical School  
Project Title: Multipolar endocardial mapping of the right atrium: description  
of a new technique  
Current Position: Associate Professor of Pediatrics  
Harvard Medical School  
Director, Program for Patient Safety & Quality  
Children's Hospital Boston

20. Michael J. Landzberg, M.D.

Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1991-1992  
Graduate Education: M.D., 1985 – Columbia University  
Project Title: Double umbrella closure of ASD's in adults  
Current Position: Assistant Professor of Medicine  
Harvard Medical School  
Director, Boston Adult Congenital Heart Service  
Children's Hospital Boston and Brigham & Women's Hospital

21. Howard M. Rosenfeld, M.D.

Post Doctoral Training Area: Clinical Research  
Training Period: 1991-1994  
Graduate Education: M.D., 1988 – Harvard Medical School  
Project Title: Balloon aortic valvuloplasty in the young adult with congenital aortic stenosis  
Current Position: Staff Cardiologist  
Children's Hospital of Oakland

22. Deepak Srivastava, M.D.

Post Doctoral Training Area: Clinical Research  
Training Period: 1992-1993  
Graduate Education: M.D., 1990 – University of Texas, Galveston  
Project Title: Hepatic venous blood and development of pulmonary AV malformations  
Current Position: Director, Gladstone Institute of Cardiovascular Disease  
Wilma & Adeline Distinguished Professor of Pediatrics  
University of California, San Francisco

23. Tamar Preminger, M.D.

Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1992-1993  
Graduate Education: M.D., 1986 – New York Medical College  
Project Title: "Intramural" residual interventricular septal defects  
Current Position: Consultant Cardiologist  
Cleveland Clinic Foundation

24. Phillip Moore, M.D.

Post Doctoral Training Area: Interventional Cardiology  
Training Period: 4/92 – 6/92  
Graduate Education: M.D., 1986 – University of California, San Diego  
Project Title: Catheter versus surgical management of severe mitral stenosis in infancy  
Current Position: Clinical Professor of Pediatrics



Cornell University Weil Medical College  
Director, Pediatric Arrhythmia Service  
Cornell and Columbia University

30. Charles M. Baker, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1996-2000  
Graduate Education: M.D., University of Minnesota Medical School  
Project Title: Pulmonary artery trauma due to balloon dilation: Recognition, avoidance and management  
Current Position: Director, Catheterization Laboratory  
Minneapolis Children's Hospital
  
31. Jeffrey A. Feinstein, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1997-1998  
Graduate Education: M.D., 1991 – New York Medical College  
Project Title: Balloon angioplasty for treatment of chronic thromboembolic pulmonary hypertension  
Current Position: Associate Professor of Pediatrics  
Stanford University  
Director, Vera Moulton Wall Center for Pulmonary Vascular Disease  
Associate Director, Pediatric and Congenital Cardiac Catheterization  
Lucile Packard Children's Hospital
  
32. Rajiv Chaturvedi, MB, ChB.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1997-1999  
Graduate Education: MB., ChB., 1989 – University of Cambridge School of Medicine  
Cambridge, UK  
Current Position: Assistant Professor of Pediatrics  
University of Toronto
  
33. Audrey C. Marshall, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1997-2000  
Project Title: Early results and mid-term follow-up of stent implantation for mild or residual or recurrent aortic coarctation.  
Graduate Education: M.D., 1993 – University of Pennsylvania Medical School  
Current Position: Assistant Professor in Pediatrics  
Harvard Medical School  
Associate Director, Cardiac Catheterization Laboratory  
Children's Hospital Boston
  
34. Edward K. Rhee, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1997-2001  
Graduate Education: M.D., 1993 – University of Pittsburgh School of Medicine  
Current Position: Assistant Professor of Pediatrics  
Washington University School of Medicine  
Director, Electrophysiology Service

St. Louis Children's Hospital

35. Laurie R. Armsby, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1998-2002  
Project Title: Management of coronary artery fistulae: Patient selection and mid term results of transcatheter closure.  
Graduate Education: M.D., 1994 – Stanford Medical School  
Current Position: Assistant Professor of Pediatrics  
Oregon Health Sciences Center
36. Clare P. O'Donnell, M.D.  
Post Doctoral Training Area: Clinical Research  
Training Period: 1999-2002  
Project Title: "Compression" of pulmonary veins between the left atrium and descending aorta.  
Graduate Education: 1990 – University of Otago Medical School, Dunedin, New Zealand  
Current Position: Pediatric / Adult Congenital Cardiologist  
Starship Hospital, Auckland, New Zealand
37. Alan Nugent, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 1999-2002  
Graduate Education: 1991 – Melbourne University  
Project Title: Device closure rates of simple atrial septal defects optimized by STARFlex device.  
Current Position: Assistant Professor of Pediatrics  
Baylor School of Medicine  
Consultant Cardiologist  
Texas Children's Hospital, Houston
38. Lisa J. Bergersen, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2000-2004  
Graduate Education: 1996 – University of Vermont College of Medicine  
Project Title: Effect of cutting balloon angioplasty on resistant pulmonary artery stenosis.  
Current Position: Instructor in Pediatrics  
Harvard Medical School
39. Susan Foerster, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2000-2004  
Graduate Education: M.D., 1996 – University of Manitoba  
Current Position: Assistant Professor of Pediatrics  
Washington University School of Medicine  
Pediatric Cardiologist  
St. Louis Children's Hospital
40. Ernest Siwik, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2/01-4/01

Graduate Education: 1989 – Wayne State University  
Project Title: Endovascular stent implantation in patients with stenotic aorto-arteriopathies:  
Early and medium-term results.  
Current Position: Interim Chief, Pediatric Cardiology  
Rainbow Babies & Children's Hospital  
Assistant Professor of Pediatrics  
Case Western Reserve University School of Medicine

41. Alison Knauth, M.D.  
Post Doctoral Training Area: Adult Congenital Heart Disease  
Training Period: 2001-2005  
Graduate Education: 1998 – University of Pennsylvania Medical School  
Project Title: Transcatheter device closure of congenital and post-operative residual  
ventricular septal defects.  
Current Position: Assistant Professor of Pediatrics and Radiology  
University of California at San Francisco
42. Yaniv Bar Cohen, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2001-2005  
Graduate Education: 1998 – University of California at Los Angeles  
Project Title: Use of stents to maintain atrial defects and Fontan fenestrations in  
congenital heart disease.  
Current Position: Children's Hospital of Los Angeles
43. Nicole Sutton, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2001-2005  
Graduate Education: M.D., 1998 – New York University  
Project Title: Cardiac catheterization in infants weighing less than 1500 grams  
Current Position: Assistant Professor of Pediatrics  
Albert Einstein College of Medicine  
Pediatric Cardiologist  
Children's Hospital at Montefiore
44. Athar Qureshi, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 7/04-9/05  
Graduate Education: M.D., 1996 – Aga Khan University, Karachi, Pakistan  
Project Title: Fifteen years of stent implantation for coarctation of the aorta: Acute and  
intermediate outcomes and evaluation of aortic wall injury.  
Current Position: Assistant Professor of Pediatrics  
Case Western Reserve University  
Associate Staff, Center for Pediatric & Congenital Heart Disease  
Cleveland Clinic
45. Doff McElhinney, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2002-2006

Graduate Education: M.D., 1998 – University of California at San Francisco  
Project Title: Current management of congenital mitral stenosis: Outcomes of transcatheter and surgical therapy in 108 infants and children.  
Current Position: Assistant Professor of Pediatrics  
Harvard Medical School

46. Jeffrey Meadows, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2003-2007  
Graduate Education: M.D., 2000 – Johns Hopkins  
Project Title: Transcatheter ventricular septal defect creation for relief of nonsystemic ventricular hypertension.  
Current Position: Assistant Professor of Pediatrics  
University of California, San Francisco
47. Shilpi Epstein, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2006-2007  
Graduate Education: M.D., 1998 – Columbia University  
Current Position: Assistant Professor of Pediatrics  
Albert Einstein College of Medicine  
Pediatric Cardiologist  
Schneider Children's Hospital
48. Lynn Peng, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2007-2008  
Graduate Education: M.D., 2001 – Johns Hopkins  
Current Position: Stanford University  
Palo Alto, California
49. Jeffrey R. Darst, M.D.  
Post Doctoral Training Area: Interventional Cardiology  
Training Period: 2008-2009  
Graduate Education: M.D., 2002 – University of Nebraska  
Current Position: Children's Hospital  
Denver, Colorado

## **BIBLIOGRAPHY**

### **Books:**

Diagnostic and Interventional Catheterization in Congenital Heart Disease. Lock JE, Keane JF, Fellows KE (Eds). Kluwer, Boston, 1986.

Diagnostic and Interventional Catheterization in Congenital Heart Disease, 2<sup>nd</sup> Edition. Lock JE, Keane JF, Perry SB (Eds). Kluwer, Boston, 1999.

Nadas' Pediatric Cardiology, 2<sup>nd</sup> Edition. Keane JF, Lock JE, Fyler DC (Eds). Elsevier, Philadelphia, 2006.

## ORIGINAL REPORTS:

1. Perry TL, Urquhart N, MacLean J, Evans ME, Hansen S, Davidson AGF, Applegarth DA, MacLeod P, Lock JE. Nonketotic hyperglycinemia. *N Eng J Med*, 1975;292:1269-1273.
2. Lock JE, Lynch RE, Mauer SM. Metabolic alkalosis in children with congestive heart failure. *J Pediatr*, 1975;87:938-940.
3. Lock JE, Lindsay WG, Burke B, L'Heureux P, Nicoloff D, Hunt CE. Prolonged membrane oxygenator support in a child with severe respiratory insufficiency. *J Pediatr Surg*, 1977;12:751-754.
4. Lock JE, Einzig S, Moller JH. Hemodynamic responses to exercise in normal children. *Am J Cardiol*, 1978;41:1278-1284.
5. Loes MW, Singh S, Lock JE, Mirkin BL. Relationship between plasma and red cell electrolyte concentrations and digoxin levels in children. *N Eng J Med*, 1978;299:501-504.
6. Lock JE, Lucas RV, Jr., Amplatz K, Bessinger FB, Jr. Silent unilateral pulmonary venous obstruction following surgical correction of transposition of the great arteries. *Chest*, 1978;73:124-127.
7. Lock JE, Coceani F, Olley PM. Direct and indirect pulmonary vascular effects of tolazoline in the newborn lamb. *J Pediatr*, 1979;95:600-605.
8. Lock JE, Olley PM, Coceani F, Swyer PR, Rowe RD. Use of prostacyclin in persistent fetal circulation. *Lancet*, 1979;1:343.
9. Lock JE, Olley PM, Coceani F, Hamilton F, Doubilet G. Pulmonary and systemic vascular responses to 6-Keto-PGE<sup>1</sup> in the conscious lamb. *Prostaglandins*, 1979;18(2):303-309.
10. Lock JE, Fuhrman BP, Epstein ML, Rowe RD, Lucas RV, Jr. Pulmonary hypertension following neonatal shock. *Pediatr Cardiol*, 1980;1:109-115.
11. Lock JE, Hamilton F, Luide H, Coceani F, Olley PM. Direct pulmonary vascular responses in the conscious newborn lamb. *J Appl Physiol*, 1980;48:188-196.
12. Lock JE, Coceani F, Olley PM. Pulmonary vascular responses to prostaglandins in the conscious newborn lamb. *Adv Prostaglandin Thromboxane Res*, 1980;7:751-753.
13. Lock JE, Olley PM, Coceani F. Direct pulmonary vascular responses to prostaglandins in the conscious newborn lamb. *Am J Physiol*, 1980;H631-H638 (Heart Circ. Physiol).
14. Lock JE, Olley PM, Soldin S, Coceani F. Indomethacin-induced pulmonary vasoconstriction in the conscious newborn lamb. *Am J Physiol*, 1980;238:H639-H644 (Heart Circ. Physiol.).

15. Lock JE, Hamilton F, Olley PM, Coceani F. The effect of alveolar hypoxia on pulmonary vascular responsiveness in the conscious newborn lamb. *Can J Physiol Pharmacol*, 1980;58:153-159.
16. Lock JE, Coceani F, Hamilton F, Greenaway-Coates A, Olley PM. The pulmonary vascular effects of three prostaglandin I<sub>2</sub> analogs in conscious newborn lambs. *J Pharmacol Exp Therap*, 1980;215:156-159.
17. Castaneda-Zuniga WR, Bass JL, Lock JE. Selective opacification of arteries with balloon occlusion angiography. *Radiology*, 1981;138:727-730.
18. Loes MW, Lock JE, Singh S, Mirkin BL. The kinetics of red blood cell electrolyte alterations following digoxin administration. *Develop Pharmacol Therap*, 1981;3:50-54.
19. Green TP, Thompson TR, Johnson D, Lock JE. Furosemide use in premature infants and the appearance of a patent ductus arteriosus. *Am J Dis Child*, 1981;135:239-243.
20. Lock JE, Olley PM, Coceani F. Enhanced beta adrenergic receptor responsiveness in the hypoxic neonatal pulmonary circulation. *Am J Physiol*, 1981;240:H697-H703.
21. Lock JE, Niemi T, Einzig S, Amplatz K, Burke B, Bass JL. Transvenous angioplasty of experimental branch pulmonary artery stenosis in newborn lambs. *Circulation*, 1981;64:886-893.
22. Kulik TJ, Foker JE, Lucas RV, Anderson RW, Lock JE. Postoperative hemodynamics in children with polytetrafluorethylene shunts. *Circulation*, 1981;64:123-130 (Supp II).
23. Johnson DE, Lock JE, Elde RP, Thompson TR. Pulmonary neuroendocrine-like cells in hyaline membrane disease and bronchopulmonary dysplasia. *Pediatr Res*, 1982;16:446-452.
24. Castaneda-Zuniga WR, Lock JE, Vloder Z, Rusnak JB, Rysavy JP, Herrera M, Amplatz K. Transluminal dilatation of experimental coarctation of the abdominal aorta. *Radiology*, 1982;143:693-697.
25. Lock JE, Einzig S, Bass JL, Moller JH. The pulmonary vascular response to oxygen and its influence on operative results in children with ventricular septal defect. *Pediatr Cardiology*, 1982;3:41-46.
26. Lock JE, Castaneda-Zuniga WR, Bass JL, Foker JE, Amplatz K, Anderson RW. Balloon dilation of excised aortic coarctation. *Radiology*, 1982;143:688-691.
27. BenShachar G, Fuhrman BP, Wang Y, Lucas RV, Jr., Lock JE. Rest and exercise hemodynamics after the Fontan procedure. *Circulation*, 1982;65:1043-1048.
28. Herrera M, Castaneda-Zuniga WR, Rusnak B, Lock JE, Amplatz K. Removal of partially extruded steel coils. *Radiology*, 1982;144:644-645.
29. Lock JE, Niemi T, Burke BA, Einzig S, Castaneda-Zuniga WR. Transcutaneous angioplasty of experimental aortic coarctation. *Circulation*, 1982;66:1280-1286.

30. Johnson DE, Kulik TJ, Lock JE, Elde RP, Thompson TR. Bombesin-, Calcitonin-, and Serotonin-immunoreactive pulmonary neuroendocrine cells in acute and chronic neonatal lung disease. *Ped Pulmon*, 1982;1:S13-S20.
31. Mammel MC, Einzig S, Kulik TJ, Thompson TR, Lock JE. Pulmonary vascular effects of amrinone in conscious lambs. *Pediatr Res*, 1983;17:720-723.
32. Green TP, Thompson TR, Johnson DE, Lock JE. Furosemide promotes patent ductus arteriosus in premature infants with respiratory distress syndrome. *N Eng J Med*, 1983;308:743-748.
33. Lock JE, Castaneda-Zuniga WR, Fuhrman BP, Bass JL. Balloon dilation angioplasty of hypoplastic and stenotic pulmonary arteries. *Circulation*, 1983;67:962-967.
34. Lock JE, Bass JL, Amplatz K, Fuhrman BP, Castaneda-Zuniga WR. Balloon dilation angioplasty of coarctations in infants and children. *Circulation*, 1983;68:109-116.
35. Kulik TJ, Bass JL, Fuhrman BP, Moller JH, Lock JE. Exercise-induced pulmonary vasoconstriction. *Br Heart J*, 1983;50:59-64.
36. Kulik TJ, Johnson DE, Elde RP, Lock JE. Pulmonary vascular effects of Bombesin and GRP in conscious newborn lambs. *J, Appl, Physiol*, 1983;55:1093-1097.
37. Braunlin EA, Lock JE, Foker JE. Repair of type B interruption of the aortic arch: Results and follow up. *J Thorac Cardiovasc Surg*, 1983;86:920-925.
38. Green TP, Thompson TR, Johnson DE, Lock JE. Diuretics and pulmonary function in premature infants with respiratory distress syndrome. *J. Pediatr.*, 1983;103:618-623.
39. Bass JL, Fuhrman BP, Lock JE. Balloon occlusion of atrial septal defects to assess right ventricular capability in hypoplastic right heart syndrome. *Circulation*, 1983;68:1081-1086.
40. Lock JE, Kulik TJ, Green TP, Niemi T, Einzig S. Resting and exercise renal blood flows in immature ovine aortic coarctation: Impact of gradient relief. *Circ Res*, 1983;53:644-654.
41. Kulik TJ, Johnson DE, Elde RP, Lock JE. Pulmonary vascular effects of vasoactive intestinal peptide in conscious newborn lambs. *Am J Physiol*, 1984;246:H716-H719.
42. Fuhrman BP, Everitt J, Lock JE. Cardiopulmonary effects of unilateral airway pressure changes in intact infant lambs. *J Appl Physiol*, 1984;56:1439-1448.
43. Lock JE, Bass JL, Kulik TJ, Fuhrman BP. Chronic percutaneous pericardial drainage with modified pigtail catheters in children. *Am J Cardiol*, 1984;53:1179-1182.
44. Fuhrman BP, Bass JL, Castaneda-Zuniga W, Amplatz K, Lock JE. Coil embolization of congenital thoracic vascular anomalies in infants and children. *Circulation*, 1984;70(2):285-289.

45. Lock JE, Bass JL, Castaneda-Zuniga W, Fuhrman BP, Rashkind WJ, Lucas RV, Jr. Dilation angioplasty of congenital or operative narrowings of venous channels. *Circulation*, 1984;70:457-464.
46. Gatto C, Johnson MG, Seybold V, Kulik TJ, Lock JE, Johnson DE. Distribution and quantitative developmental changes in guinea pigs' pulmonary beta receptors. *J Appl Physiol*, 1984;57:1901-1907.
47. Smith-Wright DL, Green TP, Lock JE, Egar MI, Fuhrman BP. Complications of vascular catheterization in critically ill children. *Crit Care Med*, 1984;12:1015-1017.
48. Kulik TJ, Lock JE. Pulmonary vasodilatory therapy in persistent pulmonary hypertension of the newborn. *Clinics in Perinatology*, 1984;11(3):693-701.
49. Kulik TJ, Johnson DE, Lock JE. Pulmonary vascular effects of leu<sup>5</sup>-enkephalin in conscious newborn lambs. *Peptides*, 1985;6:1-5.
50. Edwards BS, Lucas RV, Lock JE, Edwards JE. Morphologic changes in the pulmonary arteries following percutaneous balloon angioplasty for pulmonary arterial stenosis. *Circulation*, 1985;71(2):195-201.
51. Ring JC, Kulik TJ, Burke BA, Lock JE. Morphologic changes induced by dilation of the pulmonary valve annulus with overlarge balloons in normal newborn lambs. *Am J Cardiol*, 1985;55:210-214.
52. Lock JE, Bass JL, Lund G, Rysavy JA, Lucas RV, Jr. Transcatheter closure of patent ductus arteriosus in piglets. *Am J Cardiol*, 1985;55:826-829.
53. Kulik TJ, Schutjer RK, Howland DF, Lock JE. Pulmonary and systemic vascular effects of SRS-A Blockade in conscious lambs. *Am J Physiol*, 1985;249:H968-H973.
54. Keane JF, McFaul R, Fellows K, Lock JE. Balloon occlusion angiography in infancy: Methodology, uses and limitations. *Am J Cardiol*, 1985;56:495-497.
55. Ring JC, Bass JL, Marvin W, Fuhrman BP, Kulik TJ, Foker JE, Lock JE. Management of congenital branch pulmonary artery stenosis with balloon dilation angioplasty: Report of 52 procedures. *J Thorac Cardio Surg*, 1985;90:35-45.
56. Lock JE, Khalilullah M, Shrivastava S, Bahl V, Keane JF. Percutaneous catheter commissurotomy in rheumatic mitral stenosis. *New Engl J Med*, 1985;313:1515-1519.
57. Lock JE, Keane JF. Non-coronary balloon angioplasty. *Indian Heart J*, 1985;37(3):142-146.
58. Fuhrman BP, Smith-Wright DL, Kulik TJ, Lock JE. Effects of static and fluctuating airway pressures on the intact immature pulmonary circulation. *J Appl Physiol*, 1986;60:114-123.
59. Wessel DL, Keane JF, Fellows KE, Robichaud H, Lock JE. Fibrinolytic therapy for femoral arterial thrombosis following cardiac catheterization in infants and children. *Cardiol*, 1986;58:347-351.

60. Radtke W, Keane JF, Fellows KE, Lang P, Lock JE. Percutaneous balloon valvotomy of congenital pulmonary stenosis using oversized balloons. *J Am Coll Cardiol*, 1986;8:909-915.
61. Flanagan MF, Leatherman GF, Carls A, Keane JF, Selwyn AP, Lock JE. Changing trends of congenital heart disease in adults: A catheterization laboratory perspective. *Cath Cardiovasc Diagn.*,1986;12:215-218.
62. McKay RG, Safian RD, Lock JE, Mandell VS, Thurer RL, Schnitt SJ, Grossman W. Balloon dilation of calcific aortic stenosis in elderly patients: Postmortem, intraoperative and percutaneous valvuloplasty studies. *Circulation*, 1986;74:119-125.
63. Perry SB, Lang P, Keane JF, Jonas RA, Sanders SP, Lock JE. Creation and maintenance of an adequate interatrial communication in patients with left atrioventricular valve atresia stenosis. *Am J Cardiol*, 1986;58:622-626.
64. Palacios IF, Lock JE, Keane JF, Block PC. Percutaneous transvenous balloon valvotomy in a patient with severe calcific mitral stenosis. *J Am Coll Cardiol*, 1986;7:1416-1419.
65. McKay RG, Lock JE, Keane JF, Safian RD, Aroesty JM, Grossman W. Percutaneous catheter commissurotomy in an adult patient with rheumatic mitral stenosis. *J Am Coll Cardiol*, 1986;7:1410-1415.
66. Nancarrow PA, Lock JE, Fellows KE. Embolization of intraosseous arteriovenous malformation. *Am J Reontgenolgy*, 1986;146:785-786.
67. Lock JE, Keane JF, Fellows KF. The use of catheter intervention procedures for congenital heart disease. *J Am Coll Cardiol*, 1986;7(6):1420-1423.
68. Helgason H, Keane JF, Fellows KE, Kulik TJ, Lock JE. Balloon dilation of the aortic valve: Studies in normal lambs and in children with aortic stenosis. *J Am Coll Cardiol*, 1987;9:816-822.
69. McKay RG, Safian RD, Lock JE, Diver DJ, Berman AD, Warren SE, Come PC, Baim DS, Mandell VE, Royal HD, Grossman W. Assessment of left ventricular function following balloon aortic valvuloplasty. *Circulation*, 1987;75:192-203.
70. McKay RG, Lock JE, Diver DJ, Grossman W. Balloon dilation of mitral stenosis in adult patients: Postmortem and percutaneous mitral valvuloplasty studies. *J Am Coll Cardiol*, 1987;9:723-731.
71. Saul JP, Keane JF, Fellows KE, Lock JE. Balloon dilation angioplasty of postoperative aortic obstructions. *Am. J Cardiol*. 1987;59:943-948.
72. Lock JE, Cockerham JT, Keane JF, Finley JP, Wakely PE, Fellows KE. Transcatheter umbrella closure of congenital cardiac defects. *Circulation*, 1987;75:593-599.
73. Mietus-Snyder M, Lang P, Mayer JE, Jonas RA, Castaneda AR, Lock JE. Childhood systemic-pulmonary shunts: Subsequent suitability for Fontan operation. *Circulation*, 1987;76:39-44.

74. Rothman A, Lang P, Lock JE, Jonas RA, Mayer JE, Castaneda AR. Surgical management of subaortic obstruction in single left ventricle and tricuspid atresia. *J Am Coll Cardiol*, 1987;10:421-426.
75. Fellows KE, Radtke W, Keane JF, Lock JE. Acute complications of catheter therapy for congenital heart disease in patients under 20 years of age. *Am J Cardiol.* 1987;60:679-683.
76. Wessel DL, Keane JF, Parness I, Lock JE. Outpatient closure of the patent ductus arteriosus. *Circulation*, 1988;77:1068-1071.
77. Arnold LW, Keane JF, Kan JS, Fellows KE, Lock JE. Transient unilateral pulmonary edema following successful balloon dilation of peripheral pulmonary artery stenosis. *Am. J Cardiol.* 1988;62:327-330.
78. Lipshultz SE, Sanders SP, Mayer JE, Colan SD, Lock JE. Are routine preoperative cardiac catheterization and angiography necessary before repair of ostium primum atrial septal defect? *J Am Coll Cardiol.*, 1988;11:373-378.
79. Zeevi B, Keane JF, Fellows KE, Lock JE. Balloon dilation of critical pulmonary stenosis in the first week of life. *J Am Coll Cardiol.*, 1988;11:821-824.
80. Sholler GF, Keane JF, Perry SB, Sanders SP, Lock JE. Balloon dilation of congenital aortic stenosis: Results and influence of technical and morphologic features on outcome. *Circulation*, 1988;78:351-360.
81. Walsh EP, Rockenmacher S, Keane JF, Hougen TJ, Lock JE, Castaneda AR. Late results in patients with tetralogy of Fallot repaired during infancy. *Circulation*, 1988;77:1062-1067.
82. Perry SB, Keane JF, Lock JE. Interventional catheterization in pediatric congenital and acquired heart disease. *Am J Cardiol*, 1988;61:109G-117G.
83. Lucas RV Jr, Lock JE, Tandon R, Edwards JE. Gross and histological anatomy of total anomalous pulmonary venous connections. *Am J Cardiol*, 1988;62:292-300.
84. Lock JE, Block PC, McKay RG, Baim DS, Keane JF. Transcatheter closure of ventricular septal defects. *Circulation*, 1988;78:361-368.
85. Kulik TJ, Johnson DE, Elde RP, Lock JE. Pulmonary and systemic vascular effects of serotonin in conscious newborn lambs. *Devel Pharm Ther*, 1988;11:135-141.
86. Perry SB, Radtke W, Fellows KE, Keane JF, Lock JE. Coil embolization of aortopulmonary collaterals and shunts in patients with congenital heart disease. *J Am Coll Cardiol*, 1989;12:100-108.
87. Lock JE, Rome JJ, Davis R, VanPraagh S, Perry SB, VanPraagh R, Keane JF. Transcatheter closure of atrial septal defects: Experimental studies. *Circulation*, 1989;79(5):1091-1099.

88. Castaneda AR, Mayer JE, Jonas RA, Lock JE, Wessel DL, Hickey PR. The neonate with critical congenital heart disease: Repair, a surgical challenge. *J Thorac Cardiovasc Surg*, 1989;8:869-875.
89. Zeevi B, Keane JF, Perry SB, Lock JE. Balloon dilation of postoperative right ventricular outflow obstructions. *J Am Coll Cardiol*, 1989;14(2):401-408.
90. Zeevi B, Keane JF, Castaneda AR, Perry SB, Lock JE. Neonatal critical valvar aortic stenosis: A comparison of surgical and balloon dilation therapy. *Circulation*, 1989;80:831-839.
91. Perry SB, Zeevi B, Keane JF, Lock JE. Interventional catheterization of left heart lesions, including aortic and mitral valve stenosis and coarctation of the aorta. *Cardiology Clinics*, 1989;7(2):341-349.
92. Mandell VS, Lock JE, Mayer JE, Parness IA, Kulik TJ. The "laid-back" aortogram: An improved angiographic view for demonstration of coronary arteries in transposition of the great arteries. *Am. J Cardiol*, 1990;65:1379-1383.
93. Spevak PJ, Bass JL, Ben-Shachar G, Hesslein P, Keane JF, Perry S, Pyles L, Lock JE. Balloon angioplasty for non-rheumatic mitral stenosis in children. *Am J Cardiol*, 1990;66:472-476.
94. Rome JJ, Keane JF, Perry SB, Spevak PJ, Lock JE. Double umbrella closure of atrial septal defects: Initial clinical applications. *Circulation*, 1990;82:751-758.
95. Rothman A, Perry SB, Keane JF, Lock JE. Early results and follow up of balloon angioplasty for branch pulmonary artery stenosis. *J Am Coll Cardiol*, 1990;15:1109-1117.
96. Bridges ND, Lock JE, Castaneda AR. Baffle fenestration with subsequent transcatheter closure: Modification of the Fontan operation for patients at increased risk. *Circulation*, 1990;82(5):1681-1689.
97. Johnson WH Jr, Peterson RK, Howland DF, Lock JE. Systemic heparinization does not prevent clot formation in coil embolization. *Cath & Cardiovasc Diag*, 1990;20:267-270.
98. Flanagan MD, Fujii AM, Colan SD, Flanagan RG, Lock JE. Myocardial angiogenesis and coronary perfusion in left ventricular pressure overload hypertrophy in the young lamb: Evidence for inhibition with chronic protamine administration. *Circulation Research*, 1991;68:1458-1470.
99. O'Laughlin MP, Perry SB, Lock JE, Mullins CE. Use of endovascular stents in congenital heart disease. *Circulation*, 1991;83:1923-1939.
100. Bridges ND, Perry SB, Keane JF, Goldstein SAN, Mandell VS, Mayer JE, Jonas RA, Castaneda AR, Lock JE. Preoperative transcatheter closure of congenital muscular ventricular septal defects. *New Engl. J Med*, 1991;324:1312-1317.

101. Bridges ND, Perry SB, Parness I, Keane JF, Lock JE. Transcatheter closure of a large patent ductus arteriosus with the Clamshell septal umbrella. *J Am Coll Cardiol*, 1991;18:1297-1302.
102. Van der Velde ME, Parness IA, Colan SD, Spevak PJ, Lock JE, Mayer JE, Sanders SP. Two-dimensional echocardiography in the pre- and post-operative management of totally anomalous pulmonary venous connection. *J Am Coll Cardiol*, 1991;18:1746-1751.
103. Marin-Garcia J, Lock JE. Catheter embolization of pulmonary arteriovenous fistulae in infancy. *Pediatric Cardiology*, 1992;13:41-43.
104. Perry SB, Rome JJ, Keane JF, Baim DS, Lock JE. Transcatheter closure of coronary artery fistulae. *J Am Coll Cardiol*, 1992;20:205-209.
105. Triedman JK, Perry SB, van der Velde M, Lock JE. Closure of congenital and acquired intracardiac shunts using transcatheter techniques: A review. *Indian Heart J*, 1992;44(3):125-131.
106. Bridges ND, Mayer JE, Lock JE, Jonas RA, Hanley FL, Keane JF, Perry SB, Castaneda AR. The effect of baffle fenestration on outcome of the modified Fontan operation. *Circulation*, 1992;86:1762-1769.
107. Wong PC, Barlow CF, Hickey PR, Jonas RA, Castaneda AR, Farrell DM, Lock JE, Wessel DL. Factors associated with choreoathetosis following cardiopulmonary bypass in children with congenital heart disease. *Circulation*, 1992;86(5)II:118-126.
108. Perry SB, Lock JE. Frontloading of double umbrellas: Improved delivery of umbrella devices. *Am. J Cardiol*, 1992;70:917-920.
109. Mayer JE, Bridges ND, Lock JE, Hanley FL, Jonas RA, Castaneda AR. Factors associated with marked reduction in mortality for Fontan operations in patients with single ventricle. *J Thorac Cardiovasc Surg*, 1992;103:444-452.
110. Hourihan MB, Perry SB, Mandell VS, Keane JF, Rome JJ, Bittle BA, Lock JE. Transcatheter umbrella closure of valvular and paravalvular leaks. *J Am Coll Cardiol*, 1992;20:1371-1377.
111. Bridges ND, Hellenbrand W, Latson L, Filiano J, Newburger JW, Lock JE. Transcatheter closure of a patent foramen ovale after presumed paradoxical embolism. *Circulation*, 1992;86(6):1902-1908.
112. Giglia TM, Mandell VS, Connor AR, Mayer JE, Lock JE. Diagnosis and management of right ventricular-dependent coronary circulation in pulmonary atresia with intact ventricular septum. *Circulation*, 1992;86(5):1516-1528.
113. Walsh EP, Saul JP, Hulse JE, Rhodes LA, Hordof AJ, Mayer JE, Lock JE. Transcatheter ablation of ectopic atrial tachycardia in young patients using radiofrequency ablation. *Circulation*, 1992;86:1138-1146.
114. Saul JP, Hulse JE, De W, Lock JE, Walsh EP. Catheter ablation of accessory atrioventricular pathways in young patients: Use of long vascular sheaths, the transseptal

- approach, and a retrograde left posterior parallel approach. *J Am Coll Cardiol*, 1993;21:571-583.
115. Rein AJJT, Preminger TJ, Perry SB, Lock JE, Sanders SP. Generalized arteriopathy in William's syndrome: An intravascular ultrasound study. *J Am Coll Cardiol*, 1993;21(7):1727-1730.
  116. Triedman JK, Bridges ND, Mayer JE, Lock JE. Prevalence and risk factors for aortopulmonary chest wall collaterals after Fontan and bidirectional Glenn procedures. *J Am Coll Cardiol*, 1993;22:207-215.
  117. Gentles TL, Lock JE, Perry SB. High pressure balloon angioplasty for branch pulmonary artery stenosis: Early experience. *J Am Coll Cardiol*, 1993;22(3):867-872.
  118. O'Laughlin MP, Slack MC, Grifka RG, Perry SB, Lock JE, Mullins CE. Implantation and intermediate term follow-up of stents in congenital heart disease. *Circulation*, 1993;88(2):605-614.
  119. Jenkins KJ, Walsh EP, Colan SD, Bergau DM, Saul JP, Lock JE. Multipolar endocardial mapping of the right atrium during cardiac catheterization: Description of a new technique. *J Am Coll Cardiol*, 1993;22(4):1105-1110.
  120. Rome JJ, Mayer JE, Castaneda AR, Lock JE. Tetralogy of Fallot with pulmonary atresia: Rehabilitation of diminutive pulmonary arteries. *Circulation*, 1993;88(4):1691-1698.
  121. Fishberger SB, Bridges ND, Keane JF, Hanley FL, Jonas RA, Mayer JE, Castaneda AR, Lock JE. Intraoperative device closure of ventricular septal defects. *Circulation*, 1993;88(5)II:205-209.
  122. Perry SB, van der Velde ME, Bridges ND, Keane JF, Lock JE. Transcatheter closure of atrial and ventricular septal defects. *Herz.*, 1993;18(2):135-142.
  123. Chang AC, Hanley FL, Wernovsky G, Rosenfeld HM, Wessel DL, Jonas RA, Mayer JE, Lock JE, Castaneda AR. Early bidirectional cavopulmonary shunt in young infants: Postoperative course and early results. *Circulation*, 1993;86[part 2]:149-158.
  124. Giglia TM, Jenkins KJ, Matitiau A, Mandell VS, Sanders SP, Mayer JE, Lock JE. Influence of right heart size on outcome in pulmonary atresia with intact ventricular septum. *Circulation*, 1993;88(5):Part 1:2248-2256.
  125. Spevak PJ, Mandell VS, Colan SD, van der Velde ME, Jonas RA, Lock JE, Sanders SP. Reliability of doppler color flow mapping in the identification and localization of multiple ventricular septal defects. *J Cardiovasc Ultrasound & Allied Tech*, 1993;10(6):573-581.
  126. Preminger TJ, Sanders SP, van der Velde ME, Castaneda AR, Lock JE. "Intramural" residual interventricular defects after repair of conotruncal malformations. *Circulation*, 1994;89:236-242.
  127. Preminger TJ, Lock JE, Perry SB. Traumatic aortopulmonary window as a complication of pulmonary artery balloon angioplasty: Transcatheter occlusion with a covered stent. A case report. *Cath & Cardiovasc Diagnosis*, 1994;31:286-289.

128. Chang AC, Hanley FL, Lock JE, Wessel DL, Castaneda AR. Management and outcome of low birth weight neonates with congenital heart disease. *J Pediatrics*, 1994;124:461-466.
129. van der Velde M, Sanders SP, Keane JF, Perry SB, Lock JE. Transesophageal echocardiographic guidance of transcatheter ventricular septal defect closure. *J Am Coll Cardiol*, 1994;23:1660-1665.
130. Moore P, Adatia I, Spevak PJ, Keane JF, Perry SB, Castaneda AR, Lock JE. Severe congenital mitral stenosis in infants. *Circulation*, 1994;89:2099-2106.
131. Spevak PJ, Mandell VS, Colan SD, van der Velde ME, Jonas RA, Lock JE, Sanders SP. Reliability of doppler color flow mapping in the identification and localization of multiple ventricular septal defects. *Echocardiography*, 1994;10:573-581.
132. Rosenfeld HM, Landzberg MJ, Perry SB, Keane JF, Colan SD, Lock JE. Balloon aortic valvuloplasty in the young adult with congenital aortic stenosis. *Am J Cardiol*, 1994;73:1012-1117.
133. Colli AM, Perry SB, Lock JE, Keane JF. Balloon dilation of critical valvar pulmonary stenosis in the first month of life. *Cath & Cardiovasc Diag*, 1995;34:23-28.
134. Jenkins KJ, Newburger JW, Lock JE, Davis RB, Coffman GA, Iezzoni LI. In-hospital mortality for surgical repair of congenital heart defects: Preliminary observations of variation by hospital caseload. *Pediatrics*, 1995;95(3):323-330.
135. Verma R, Lock BG, Perry SB, Moore P, Keane JF, Lock JE. Intraaortic spring coil loops: Early and late results. *J Am Coll Cardiol*, 1995;25(6):1416-1419.
136. duPlessis AJ, Chang AC, Wessel DL, Lock JE, Wernovsky G, Newburger JW, Mayer JE. Cerebrovascular accidents following the Fontan operation. *Pediatric Neurology*, 1995;12(3):230-236.
137. Bridges ND, Lock JE, Mayer JE, Burnett J, Castaneda AR. Cardiac catheterization and test occlusion of the interatrial communication after the fenestrated Fontan operation. *J Am Coll Cardiol*, 1995;25(7):1712-1717.
138. Laussen PC, Hansen DD, Perry SB, Fox ML, Javorski JJ, Burrows FA, Lock JE, Hickey PR. Transcatheter closure of ventricular septal defects: Hemodynamic instability and anesthetic management. *Anesth & Analg*, 1995;80:1076-1082.
139. Srivastava D, Preminger T, Lock JE, Mandell V, Keane JF, Mayer JE, Kozakewich H, Spevak PJ. Hepatic venous blood and the development of pulmonary arteriovenous malformations in congenital heart disease. *Circulation*, 1995;92(5):1217-1222.
140. Laham R, Ho K, Douglas P, Faherty CE, Lock JE, Baim D, Kuntz R. Right ventricular infarction complicated by acute right-to-left shunting. *Amer J Cardiol*, 1995;74(8):824-826.

141. Landzberg MJ, Sloss L, Faherty CE, Morrison B, Bittle J, Bridges N, Casale P, Keane JF, Lock JE. Orthodeoxia-platypnea due to intracardiac shunting: Relief with transcatheter double umbrella closure. *Cath & Cardiovasc Diag*, 1995;36:247-250.
142. Powell AJ, Lock JE, Keane JF, Perry SB. Prolongation of RV-PA conduit life span by percutaneous stent implantation: Intermediate term results. *Circulation*, 1995;92(11):3282-3288.
143. Kreutzer J, Landzberg MJ, Preminger TJ, Mandell VS, Treves ST, Reid LM, Lock JE. Isolated peripheral pulmonary artery stenoses in the adult. *Circulation*, 1996;93(7):1417-1423.
144. Moore P, Egito E, Mowrey H, Perry SB, Lock JE, Keane JF. Mid term results of balloon dilation of congenital aortic stenosis: Predictors of success. *J Am Coll Cardiol*, 1996;27(5):1257-1263.
145. Kreutzer J, Perry SB, Jonas RA, Mayer JE, Castaneda AR, Lock JE. Tetralogy of Fallot with diminutive pulmonary arteries: Preoperative pulmonary valve dilation and transcatheter rehabilitation of pulmonary arteries. *J Am Coll Cardiol*, 1996;27(7):1741-1747.
146. Landzberg MJ, Goldhaber SZ, Fernandes SM, Lock JE. Balloon dilation of distal pulmonary artery obstruction for chronic thromboembolic disease – A new therapy for a devastating illness. *Circulation*, 1996;94(8)I-596.
147. Kreutzer J, Keane JF, Lock JE, Walsh EP, Jonas RA, Castaneda AR, Mayer, JE. Conversion of a modified Fontan procedure to lateral atrial tunnel cavopulmonary anastomosis. *J Thorac Cardiovasc Surg*, 1996;111(6):1169-1176.
148. Friedman JK, Jenkins KJ, Colan SD, Van Praagh R, Lock JE, Walsh EP. Multipolar endocardial mapping of the right heart using a basket catheter: Acute and chronic animal studies. *PACE*, 1997;20(1):51-59.
149. Kreutzer J, Lock JE, Jonas RA, Keane JF. Transcatheter fenestration dilation and/or creation in post-operative Fontan patients. *Amer J Cardiol*, 1997;79:228-232.
150. Kumar K, Lock JE, Geva T. Apical muscular ventricular septal defects between the left and the right ventricular infundibulum: Diagnostic and interventional considerations. *Circulation*, 1997;95(5):1207-1213.
151. Adatia I, Moore PM, Jonas RA, Colan S, Lock JE, Keane JF. Clinical course and hemodynamic observations after supra-annular mitral valve replacement in infants and children. *J Am Coll Cardiol*, 1997;29(5):1089-1094.
152. Gentles TL, Mayer JE, Gauvreau K, Newburger JW, Lock JE, Kupferschmid JP, Burnett J, Jonas RA, Castanada AR, Wernovsky G. Fontan operation in five hundred consecutive patients: Factors influencing early and late outcome. *J Thorac Cardiovasc Surg*, 1997;114(3):376-391.
153. Egito E, Moore P, O'Sullivan J, Colan S, Perry SB, Lock JE, Keane JF. Transvascular balloon dilation for neonatal critical aortic stenosis: Early and late results. *J Am Coll Cardiol*, 1997;29(2):442-447.

154. Jonas RJ, Keane JF, Lock JE. Aortic valve-preserving procedure for enlargement of the left ventricular outflow tract and mitral annulus. *Cardiovasc Surg*, 1998;115(5):1219-1222.
155. Landzberg MJ, Lock JE. Transcatheter management of ventricular septal rupture after myocardial infarction. *Seminars Thorac Cardiovasc Surg*, 1998;10(2):128-132.
156. Atz AM, Adatia I, Lock JE, Wessel DL. Combined effects of nitric oxide and oxygen during acute pulmonary vasodilator testing. *J Am Coll Cardiol*, 1999;33(3):813-819.
157. Satou GM, Perry SB, Lock JE, Piercy GE, Keane JF. Repeat balloon dilation of congenital valvar aortic stenosis: Immediate results and midterm outcome. *Cath & Cardiovasc Intervent*, 1999;47:47-51.
158. Kreutzer J, Ryan CA, Wright JA, Jenkins KJ, Marx G, Van Praagh R, Lock JE. Acute animal studies of the STARFlex™ system: A new self-centering CardioSEAL™ septal occluder. *Cath & Cardiovasc Intervent*, 2000;49:225-233.
159. Hung J, Landzberg MJ, Jenkins KJ, King ME, Lock JE, Palacios P, Lang P. Closure of patent foramen ovale for paradoxical emboli: Intermediate-term risk of recurrent neurological events following transcatheter device placement. *J Am Coll Cardiol*, 2000;35(5):1311-1316.
160. Perry YY, Triedman JK, Gauvreau K, Lock JE, Jenkins KJ. Sudden death in patients after transcatheter device implantation. *Am J Cardiol*, 2000;85:992-995.
161. Marshall AC, Perry SB, Keane JF, Lock JE. Early results and medium-term follow-up of stent implantation for mild residual or recurrent aortic coarctation. *Am Heart J*, 2000;139:1054-1060.
162. Marshall AC, Lock JE. Structural and compliant anatomy of the patent foramen ovale in patients undergoing transcatheter closure. *Am Heart J*, 2000;140:303-307.
163. Baker CM, McGowan, FX, Keane JF, Lock JE. Pulmonary artery trauma due to balloon dilation: Recognition, avoidance and management. *J Am Coll Cardiol*, 2000;36(5):1684-1690.
164. Powell AJ, Mayer JE, Lang P, Lock JE. Outcome in infants with pulmonary atresia, intact ventricular septum, and right ventricular-dependent coronary circulation. *Am J Cardiol*, 2000;86:1272-1274.
165. Goff DA, Blume ED, Gauvreau K, Mayer JE, Lock JE, Jenkins KJ. Clinical outcome of fenestrated Fontan patients after closure: The first ten years. *Circulation*, 2000;102:2094-2099.
166. Freedom RM, Lock JE, Bricker JT. Pediatric cardiology and cardiovascular surgery : 1950-2000. *Circulation*, 2000;102:IV-58-68.
167. Feinstein JA, Goldhaber SZ, Lock JE, Fernandes SM, Landzberg MJ. Balloon angioplasty for treatment of chronic thromboembolic pulmonary hypertension. *Circulation*, 2001;103:10-13.

168. Geggel RL, Gauvreau K, Lock JE. Balloon dilation angioplasty of peripheral pulmonary stenosis associated with William's syndrome. *Circulation*, 2001;103:2165-2170.
169. Powell AJ, Gauvreau K, Jenkins, KJ, Blume ED, Mayer JE, Lock JE. Perioperative risk factors for development of protein-losing enteropathy following a Fontan procedure. *Am J Cardiol*, 2001;88:1206-1209.
170. Stamm C, Friehs I, Mayer JE, Zurakowsky D, Triedman JK, Walsh EP, Lock JE, Jonas RA, del Nido PJ. Long term results of the lateral tunnel Fontan operation. *J Thorac Cardiovasc Surg*, 2001;121:28-41.
171. Stamm C, Friehs IN, Zurakowski D, Scheule AM, Moran AM, Lock JE, Mayer JE, del Nido PJ, Jonas RA. Outcome after reconstruction of discontinuous pulmonary arteries. *J Thorac Cardiovasc Surg*, 2002;123:246-257.
172. Armsby LR, Keane JF, Sherwood MC, Forbess JM, Perry SB, Lock JE. Management of coronary artery fistulae: Patient selection and mid-term results of transcatheter closure. *J Am Coll Cardiol*, 2002;39(6):1026-1032.
173. Rosales AM, Lock JE, Perry SB, Geggel RL. Interventional catheterization management of perioperative peripheral pulmonary stenosis: Balloon angioplasty or endovascular stenting. *Cath & Cardiovasc Intervent*, 2002;56:272-277.
174. Huang T, Lock JE, Marshall AC, Basson C, Seidman JG, Seidman CE. Causes of clinical diversity in human TBX5 mutations. *Cold Spring Harbor Symposia on Quantitative Biology*. 2002;LXVII;115-120.
175. Meier B, Lock JE. Clinical Cardiology: Physician update – Contemporary management of patent foramen ovale. *Circulation*, 2003;107:5-9.
176. Bergersen LJ, Perry SB, Lock JE. Effect of cutting balloon angioplasty on resistant pulmonary artery stenosis. *Am. J Cardiol*, 2003;91:185-189.
177. O'Donnell CP, Lock JE, Powell AJ, Perry SB. Compression of pulmonary veins between the left atrium and the descending aorta. *Am J Cardiol*, 2003;91:248-251.
178. Van Praagh S, Geva T, Lock JE, del Nido PJ, Vance MS, Van Praagh R. Biatrial or left atrial drainage of the right superior vena cava: Anatomic, morphogenetic, and surgical considerations – Report of three new cases and literature review. *Pediatr Cardiol*, 2003;24:350-363.
179. Siwik ES, Perry SB, Lock JE. Endovascular stent implantation in patients with stenotic aorto-arteriopathies: Early and medium-term results. *Cath & Cardiovasc Intervent*, 2003;59:380-386.
180. Marshall AC, Love BA, Lang P, Jonas RA, del Nido PJ, Mayer JE, Lock JE. Staged repair of tetralogy of Fallot and diminutive pulmonary arteries using a fenestrated ventricular septal defect patch. *J. Thorac. Cardiovasc. Surg*, 2003;126:1427-1433.

181. Geva T, Sandweiss BM, Gauvreau K, Lock JE, Powell AJ. Factors associated with impaired clinical status in long-term survivors of tetralogy of Fallot repair evaluated by magnetic resonance imaging. *J. Am. Coll. Cardiol*, 2004;43(6):1068-1074.
182. Vlahos A, Lock JE, McElhinney DB, van der Velde, ME. Hypoplastic left heart syndrome with intact or highly restrictive atrial septum: Outcome after neonatal transcatheter atrial septostomy. *Circulation*, 2004;109:2326-2330.
183. Knauth AL, Lock JE, Perry SB, McElhinney DB, Gauvreau K, Landzberg MJ, Rome J, Hellenbrand W, Ruiz C, Jenkins KJ. Transcatheter device closure of congenital and post-operative residual ventricular septal defects. *Circulation*, 2004;110:501-507.
184. Marshall AC, van der Velde ME, Tworetzky W, Wilkins-Haug L, Benson CB, Jennings RW, Lock JE. Creation of an atrial septal defect in utero for fetuses with hypoplastic left heart syndrome and intact or highly restrictive atrial septum. *Circulation*, 2004;110:253-258.
185. Tworetzky W, Wilkins-Haug L, Jennings RW, van der Velde ME, Marshall AC, Colan SD, Benson CB, Lock JE, Perry SB. Balloon dilation of severe aortic stenosis in the fetus: Potential for prevention of hypoplastic left heart syndrome. Candidate selection, technique, and results of successful intervention. *Circulation*, 2004;110:2125-2131.
186. McElhinney DB, Lock JE, Keane JF, Moran AM, Colan SD. Left heart growth, function, and reintervention after balloon aortic valvuloplasty for neonatal aortic stenosis. *Circulation*, 2005;111:451-458.
187. Bar-Cohen Y, Perry SB, Keane JF, Lock JE. Use of stents to maintain atrial defects and Fontan fenestrations in congenital heart disease. *J Interven Cardiol*, 2005;18:11-118.
188. McElhinney DB, Sherwood MC, Keane JF, del Nido PJ, Almond CSD, Lock JE. Current management of severe congenital mitral stenosis: Outcomes of transcatheter and surgical therapy in 108 infants and children. *Circulation*, 2005;112:707-714.
189. McElhinney DB, Kreutzer J, Lang P, Mayer JE, del Nido, PJ, Lock JE. Incorporation of the hepatic veins into the cavopulmonary circulation in patients with heterotaxy and pulmonary arteriovenous malformations after Kawashima procedure. *Ann Thorac Surg*, 2005;80:1597-1603.
190. McElhinney DB, Marshall AC, Lang P, Lock JE, Mayer JE. Creation of a brachial arteriovenous fistula for treatment of pulmonary arteriovenous malformations after cavopulmonary anastomosis. *Ann Thorac Surg*, 2005;80:1604-1609.
191. Marshall AC, Tworetzky W, Bergersen L, McElhinney DB, Benson CB, Jennings RW, Wilkins-Haug LE, Marx GR, Lock JE. Aortic valvuloplasty in the fetus: Technical characteristics of successful balloon dilation. *J Pediatr*, 2005;147(4):535-539.
192. Bergersen L, Gauvreau K, Lock, JE, Jenkins, KJ. Recent results of pulmonary artery angioplasty: The differences between proximal and distal lesions. *Cardiol Young*, 2005;15:597-604.

193. Bergersen L, Jenkins KJ, Gauvreau K, Lock JE. Follow-up results of cutting balloon angioplasty used to relieve stenoses in small pulmonary arteries. *Cardiol Young*, 2005;15:605-610.
194. Tworetzky W, del Nido P, Powell AJ, Marshall AC, Lock JE, Geva T. Usefulness of magnetic resonance imaging of left ventricular endocardial fibroelastosis in infants after fetal intervention for aortic valve stenosis. *Am J Cardiol*, 2005;96:1568-1570.
195. Wilkins-Haug L, Benson, C, Tworetzky W, Marshall A, Lock JE. In-utero intervention for hypoplastic left heart syndrome – a perinatologist’s perspective. *Ultrasound Obstet Gynecol*, 2005;26:481-486.
196. Makikallio K, McElhinney DB, Levine JC, Marx GR, Colan SD, Marshall AC, Lock JE, Marcus EN, Tworetzky W. Fetal aortic valve stenosis and the evolution of hypoplastic left heart syndrome: Patient selection for fetal intervention. *Circulation*, 2006;113:1401-1405.
197. Colan SD, McElhinney DB, Crawford EC, Keane JF, Lock JE. Validation and re-evaluation of a discriminant model predicting anatomic suitability for biventricular repair in neonates with aortic stenosis. *J Am Coll Cardiol*, 2006;47:1858-1865.
198. Peng L, McElhinney DB, Nugent AW, Powell AJ, Marshall AC, Bacha EA, Lock JE. Endovascular stenting of obstructive right ventricle to pulmonary artery conduits: A fifteen year experience. *Circulation*, 2006;113:2598-2605.
199. Nugent A, Britt A, Gauvreau K, Piercy G, Lock JE, Jenkins K. Device closure rates of simple atrial septal defects optimized by STARFlex device. *J Am Coll Cardiol*, 2006;48:538-544.
200. Salvin JW, McElhinney DB, Colan SD, Gauvreau, K, del Nido PJ, Jenkins KJ, Lock JE, Tworetzky, W. Fetal tricuspid valve size and growth as predictors of outcome in pulmonary atresia with intact ventricular septum. *Pediatrics*, 2006;118:415-420.
201. Sutton N, Lock JE, Geggel RL. Cardiac catheterization in infants weighing less than 1500 Grams. *Cath and Cardiovasc Intervent*, 2006;68:948-956.
202. Meadows J, Marshall AC, Lock JE, Scheurer M, Laussen PC, Bacha EA. A hybrid approach to stabilization and repair of obstructed total anomalous pulmonary venous connection in a critically ill newborn infant. *J Thorac Cardiovasc Surg*, 2006;131:e1.
203. Tzifa A, Marshall AC, McElhinney DB, Lock JE, Geggel RL. Endovascular treatment for superior vena caval occlusion or obstruction in a pediatric and young adult population: A 22 year experience. *J Am Coll Cardiol*, 2007;49:1003-1009.
204. Meadows J, Pigula FA, Lock JE, Marshall, AC. Transcatheter ventricular septal defect creation for relief of nonsystemic ventricular hypertension. *J Thorac & Cardiovasc Surg*, 2007;133:912-918.
205. Qureshi AM, McElhinney DB, Lock JE, Landzberg MJ, Lang P, Marshall AC. Acute and intermediate outcomes, and evaluation of injury to the aortic wall, as based on 15 years experience of implanting stents to treat aortic coarctation. *Cardiol in the Young*, 2007;17:307-318.

206. Mizrahi-Arnaud A, Tworetzky W, Bulich LA, Wilkins-Haug LE, Marshall AC, Benson CB, Lock JE, McElhinney DB. Pathophysiology, management, and outcomes of fetal hemodynamic instability during prenatal cardiac intervention. *Pediatric Research*. 2007;62:325-330.
207. Selamet-Tierney ES, Wald RM, McElhinney DB, Marshall AC, Benson CB, Marcus EN, Marx, GR, Levine JC, Wilkins-Haug L, Lock JE, Tworetzky, W. Changes in left heart hemodynamics after technically successful in utero aortic valvuloplasty. *Ultrasound in Obstetrics & Gynecology*. 2007;30:715-720.
208. Lim DS, Landzberg MJ, Forbes T, Rothman A, Lock JE. Transcatheter closure of high risk muscular ventricular septal defects with the CardioSEAL occluder: Initial report from the CardioSEAL VSD registry. *Cath and Cardiovasc Intervent*. 2007;70:740-744.
209. Sutton NJ, Peng L, Lock JE, Lang P, Marx GR, Curran TJ, O'Neill JA, Picard ST, Rhodes J. Effect of pulmonary artery angioplasty on exercise function after repair of tetralogy of Fallot. *Am Heart J*. 2008;155:182-186.
210. Bergersen L, Gauvreau K, Jenkins KJ, Lock JE. Adverse event rates in congenital cardiac catheterization: A new understanding of risks. *Congenit Heart Dis*. 2008;3:90-105.
211. Brown DW, Chong EC, Gauvreau K, Keane, JF, Lock JE, Marshall AC. Aortic wall injury as a complication of neonatal aortic valvuloplasty: Incidence and risk factors. *Circ Cardiovasc Intervent*. 2008;1:53-59
212. Selamet-Tierney ES, Pigula FA, Berul CI, Lock JE, del Nido PJ, McElhinney DB. Mitral valve replacement in infants and children 5 years of age or younger: Evolution in practice and outcome over three decades with a focus on supra-annular prosthesis implantation. *J Thorac Cardiovasc Surg*. 2008;136:954-961.
213. Marshall AC, Levine J, Morash D, Silva V, Lock JE, Benson C, Wilkins-Haug L, McElhinney DB, Tworetzky W. Results of in utero atrial septoplasty in fetuses with hypoplastic left heart syndrome. *Prenatal Diagnosis*. 2008;11:1023-1028.
214. Knauth AL, Gauvreau K, Powell AJ, Landzberg MJ, Walsh, EP, Lock JE, Geva T. Right ventricular size and function and age at repair predict major adverse clinical outcomes late after tetralogy of Fallot repair. *Heart*. 2008;94(2):211-216.
215. Khairy P, Fernandes SM, Mayer JE, Triedman J, Walsh EP, Lock JE, Landzberg MJ. Long term survival, modes of death and predictors of mortality in patients with Fontan surgery. *Circulation*. 2008;117(1):85-92.
216. Maglione J, Bergersen L, Lock JE, McElhinney DB. Ultra-high pressure balloon angioplasty for treatment of resistant stenoses within or adjacent to previously implanted pulmonary arterial stents. *Circ Cardiovasc Intervent*. 2009;2:52-58.
217. McElhinney DB, Marshall AC, Wilkins-Haug LE, Brown DW, Benson CB, Silva V, Marx GR, Mizrahi-Arnaud A, Lock JE, Tworetzky W. Predictors of technical success

- and postnatal biventricular outcome after in utero aortic valvuloplasty for aortic stenosis with evolving hypoplastic left heart syndrome. *Circulation*. 2009;120:1482-1490.
218. Zahn EM, Hellenbrand WE, Lock JE, McElhinney DB. Implantation of the Melody Transcatheter pulmonary valve in patients with a dysfunctional right ventricular outflow tract conduit. *J Am Coll Cardiol*. 2009;54:1722-1729.
  219. Hasan BS, Keane JF, Tworetzky W, Lock JE, Marshall AC. Postnatal angiographic appearance of left ventricular myocardium in fetal patients with aortic stenosis having in-utero aortic valvuloplasty. *Am J Cardiol*. 2009;104:1271-1275.
  220. Harrild DM, Powell AJ, Trang, TX, Geva T, Lock JE, Rhodes J, McElhinney DB. Long term pulmonary regurgitation following balloon valvuloplasty for pulmonary stenosis. *J Am Coll Cardiol* 2010;55:1041-1047.
  221. Valente AM, Lock JE, Gauvreau K, Rodriguez-Huertas E, O'Brien-Joyce C, Armsby L, Bacha E, Landzberg MJ. Predictors of long term adverse outcomes in patients with congenital coronary artery fistulae. *Circ Cardiovasc Intervent*. 2010;3:1-6.
  222. Darst JR, Newburger JW, Resch S, Rathod RH, Lock JE. Deciding without data. *Congenit Heart Dis*. 2010;5(4):339-342.
  223. Rathod RH, Farias M, Friedman KG, Graham D, Fulton DR, Newburger JW, Colan S, Jenkins K, Lock JE. A novel approach to gathering and acting on relevant clinical information: SCAMPs. *Congenit Heart Dis*. 2010;5(4):343-353.
  224. Fortescue EB, Lock JE, Galvin T, McElhinney DB. To close or not to close: The very small patent ductus arteriosus. *Congenit Heart Dis*. 2010;5(4):354-365.
  225. Kane DA, Fulton DR, Saleeb S, Zhou J, Lock JE, Geggel RL. Needles in hay: Chest pain as the presenting symptom in children with serious underlying cardiac pathology. *Congenit Heart Dis*. 2010;5(4):366-373.
  226. Friedman KG, Rathod RH, Farias M, Graham D, Powell AJ, Fulton DR, Newburger JW, Colan SD, Jenkins KJ, Lock JE. Resource utilization after introduction of a standardized clinical assessment and management plan. *Congenit Heart Dis*. 2010;5(4):374-381.
  227. Brown DW, Dipilato AE, Chong EC, Lock JE, McElhinney DB. Aortic valve reinterventions after balloon aortic valvuloplasty for congenital aortic stenosis. *J Am Coll Cardiol*, 2010;56:1740-1749.
  228. Brown DW, Dipilato AE, Chong EC, Gauvreau K, McElhinney DB, Colan SD, Lock JE. Sudden unexpected death after balloon valvuloplasty for congenital aortic stenosis. *J Am Coll Cardiol*, 2010;56:1939-1946.
  229. Tworetzky W, McElhinney DB, Marx GR, Benson CB, Brusseau R, Morash D, Wilkins-Haug LE, Lock JE, Marshall AC. In utero valvuloplasty for pulmonary valve atresia with hypoplastic right ventricle: Techniques and outcomes. *Pediatrics*. In Press.
  230. Senthilnathan S, Gauvreau K, Marshall AC, Lock JE, Bergersen, L. Contrast administration in pediatric cardiac catheterization: Dose and adverse events. *Catheter Cardiovasc Interv*. In Press.

231. McElhinney DB, Hellenbrand WE, Zahn EM, Jones TK, Cheatham JP, Lock JE, Vincent JA. Short and medium term outcomes after transcatheter pulmonary valve placement in the expanded multicenter U.S. Melody® valve trial. *Circulation*. In Press.
232. Vida VL, Bacha E, Thiagarajan R, Gauvreau K, Larrazabal LA, Fynn-Thompson, F, Pigula FA, Mayer JE Jr, del Nido PJ, Tworetzky W, Lock JE, Marshall A. Hypoplastic left heart syndrome and intact or highly restrictive atrial septum: Surgical experience from a single center. *Ann Thoracic Surg*. In Press.
233. Bergersen L, Marshall AC, Gauvreau K, Beekman RH, Hirsch R, Foerster S, Balzer D, Vincent J, Hellenbrand W, Holzer R, Cheatham, J, Moore J, Lock JE, Jenkins K. Adverse event rates in congenital cardiac catheterization – A multicenter experience. *Cath & Cardiovasc Interventions*. In Press.
234. Farias M, Greenberg J, Zallen B, Rathod RH, Friedman KG, Rauscher N, Newburger JW, Lock JE, Jenkins KJ. The end of “best practice”: Standardized clinical assessment and management plans, a clinician led network approach to defining effective care. *Health Affairs*. In Submission
235. O’Donnell C, Landzberg MJ, Marx GR, Lock JE, Mullen MP. Lung abscess in adult patients with tetralogy of Fallot with pulmonary atresia. *Am J Cardiol* In Submission.
236. Nugent AW, Love B, Perry SB, Lock JE. Covered stents in congenital heart disease. In Submission.
237. Landzberg MJ, Ibrahim R, Sherwood MC, Pearson DD, McGowan FX, Lock JE. Transcatheter reduction of paravalvar leakage. In Submission.
238. Nordmeyer J, Khambadkone S, Coats, L, Schievano S, Lurz, P, Parenzan G, Taylor A, Lock JE, Bonhoeffer P. Analysis of stent fracture after percutaneous pulmonary valve implantation. In Submission.
239. Bacha EA, McElhinney DB, Guleserian KJ, Marx GR, Jonas RA, del Nido PJ, Lock JE, Colan SD. Surgical aortic valvuloplasty in children and adolescents with aortic regurgitation: Acute and intermediate effects on aortic valve function and left ventricular dimensions. In Submission.
240. Robinson JDC, Marx, GR, del Nido PJ, Lock JE, McElhinney DB. Balloon valvuloplasty for palliation of mitral stenosis after repair of atrioventricular canal defects. In Submission.
241. Sutton, NJ, Jenkins KJ, Keane JF, Gauvreau K, Colan SD, Lock JE. Diagnostic predictors of unfavorable pulmonary artery anatomy in tetralogy of Fallot and pulmonary atresia. In Preparation.
242. Peng LF, Lock, JE, Nugent AW, Jenkins KJ, McElhinney DB. Comparison of conventional and cutting balloon angioplasty for congenital and postoperative pulmonary vein stenosis in infants and young children. In Preparation.

## **CHAPTERS, REVIEWS, EDITORIALS, CASE REPORTS**

1. Coceani F, Olley PM, Lock JE. Prostaglandins, ductus arteriosus, pulmonary circulation: Current concepts and clinical potential. *European J Clin Pharm.* 1980;18:75-81.
2. Olley PM, Coceani F, Lock JE, Silver MM, Freedom RM, Rowe RD. The prostaglandins in congenital heart disease, pharmacology and clinical potential. *Selected Topics in Cardiac Surgery*, 1980:143-157.
3. Lock JE. Percutaneous transluminal angioplasty in the management of congenital cardiac and vascular anomalies. In Percutaneous Transluminal Angioplasty. Castaneda-Zuniga W (Ed). Theime-Stratton Inc. 1983:180-187.
4. Drummond WH, Lock JE. Neonatal pulmonary vasodilator drugs: Current status. *Develop. Pharm. Therap.*, 1984;7:1-20.
5. Kulik TJ, Lock JE. Pulmonary vasodilator therapy in persistent pulmonary hypertension of the newborn. *Clinics in Perinatology*, 1984;1:189-236.
6. Lock JE (Ed). Interventional Procedures in Pediatric Cardiac Disease; Seminars in Interventional Radiology, 1984;1:189-236.
7. Bass JL, Fuhrman BP, Kulik TJ, Lock JE. Thoracic interventional procedures in children. *Seminars in Interventional Radiology.*, 1984;1:195-200.
8. Lock JE. Now that we can dilate, should we? *Am J Cardiol.* 1984;54:1360.
9. Kulik TJ, Lock JE. The assessment of pulmonary vascular tone: A review of experimental methodologies. *Pediatric Pharmacol.*, 1984;4:73-83.
10. Lock JE. Angioplasty in congenital heart disease: An overview. *Sem Intervent Radiol.* 1984;1:315-319.
11. Lock JE, Keane JF. Non-coronary balloon angioplasty. *Indian Heart J.* 1985;37:142.
12. Hoffer FA, Fellows KE, Wyly JB, Lock JE. Therapeutic catheter procedures in pediatrics. *Radiol. Clin N Am.* 1985;32:1461-1476.
13. Lock JE, Keane JF, Fellows KE. Interventional cardiac catheterization. In Current Status of Clinical Cardiology, Congenital Heart Disease, MTP Press, Lancaster UK, 1986:163-182.
14. Lock JE, Keane JF, Fellows KE. The use of catheter intervention procedures for congenital heart disease. *J Am Coll Cardiol.* 1986;7:1420-1423.
15. Lock JE. Pathophysiology of transposition complex. In Challenges in the Treatment of Congenital Cardiac Anomalies. Takahashi M, Wells WJ, Lindesmith GG (Eds), Futura, NY, 1986:137-141.
16. Lock JE. Balloon angioplasty for congenital stenotic lesions: indications and limitations. In Challenges in the Treatment of Congenital Cardiac Anomalies. Takahashi M, Wells WJ, Lindesmith GG (Eds), Futura, NY 1986:241-247.

17. Radtke W, Keane JF, Fellows KE, Lock JE. Transluminal balloon valvotomy: A new approach to the treatment of pulmonary-valve stenosis. *Practical Cardiology*, 1987;13:102-113.
18. Kulik TJ, Lock JE. Leukotrienes and the immature pulmonary circulation. *Am Rev Resp Dis.*, 1987;13:102-113.
19. Wessel DL, Lock JE. Transcatheter umbrella closure of cardiac defects. *Adv Bioeng.* 1987;3:143-145.
20. Perry SB, Keane JF, Lock JE. Interventional catheterization in congenital and acquired heart disease. *Am J Cardiol.* 1988;61:109G-117G.
21. Zeevi B, Perry SB, Keane JF, Mandell VE, Lock JE. Interventional cardiac procedures in neonates and infants: State of the Art. *Clin Perinatology.* 1988;15:633-658.
22. Vita JA, Bittl JA, Selwyn AP, Lock JE. Transcatheter closure of a calcified patent ductus arteriosus in an elderly man. *J Am Coll Cardiol.* 1988;12:1382-1395.
23. D'Orsogna L, Lock JE. Umbrella closure of atrial septal defects, ventricular septal defects, and patent ductus arteriosus. *Bulletin of the Saudi Heart Assn.*, 1989;1(3):99-105.
24. Radtke W, Lock JE. Balloon dilation. *Pediatr Clin N Am.* 1990;37:193-214.
25. Rothman A, Perry SB, Keane JF, Lock JE. Balloon dilation of branch pulmonary artery stenosis. *Sem Thoracic Cardiovasc Surg.* 1990;2:46-54.
26. Triedman JK, Perry SB, Keane JF, Lock JE. Therapy of critical aortic stenosis in the infant and neonate. In The Aortic Valve. Emery RW, Arom KV (Eds). Hanley & Belfus, Inc., Philadelphia, PA, 1991;10:107-114.
27. Fujii AM, Lock, JE. Congenital heart disease. In Manual of Neonatal Care, Third Edition. Cloherty JP, Stark AR (Eds.). Little, Brown & Co., Boston, Mass., 1991.
28. Bridges ND, Lock JE, Castaneda AR. A collaborative approach to the treatment of complex congenital heart disease. In Advances in Cardiology and Cardiac Surgery. Edizioni Ed. Faenza, Italy. 1991;93-97.
29. Lock JE, Keane JF, Mandell VS, Perry SB. Cardiac Catheterization. In Nadas' Pediatric Cardiology. Fyler DC (Ed). Hanley & Belfus, Philadelphia, PA, 1992;14:187-223.
30. Landzberg MJ, Lock JE. Transcatheter closure of cardiac defects. In Advances in Pediatrics. Barness LA, DeVivo DC, Kaback MM, Morrow G, Oski FA, Rudolph AM (Eds.). Mosby, St. Louis, MO, 1993;40:247-271.
31. Rome JJ, Lock JE. Interventional catheterization in pediatric and congenital heart disease. In Surgery for Congenital Heart Defects. Stark J, de Laval M (Eds.). W.B. Saunders, Philadelphia, PA, 1993;6:95-113.
32. Landzberg MJ, Lock JE. Interventional catheter procedures used in congenital heart disease. Cardiology Clinics. 1993;11(4):569-587.

33. Keane JF, Lock JE, Perry SB. Diagnostic cardiac catheterization in infants and children. In Cardiac Catheterization, Angiography, and Intervention, 5<sup>th</sup> Edition. Baim DS, Grossman W (Eds.). Williams & Wilkins, Baltimore, MD. 1995;7:97-106.
34. Perry SB, Keane JF, Lock JE. Pediatric interventions. In Cardiac Catheterization, Angiography, and Intervention, 5<sup>th</sup> Edition. Baim DS, Grossman W (Eds.). Williams & Wilkins, Baltimore, MD. 1995;33:713-732.
35. Lock JE, Perry SB, Keane JF. Profiles in congenital heart disease. In Cardiac Catheterization, Angiography, and Intervention, 5<sup>th</sup> Edition. Baim DS, Grossman W (Eds.). Williams & Wilkins, Baltimore, MD. 1995;39:823-842.
36. Kreutzer J, Lock JE. Devices for Intervention in Congenital Heart Disease. ACC Current Journal Review, 1996;5(6):55-59.
37. Rome JJ, Lock JE. Cardiac catheterization in the critically ill cardiac patient. In Pediatric Cardiac Intensive Care. Chang AC, Hanley FL, Wernovsky G, Wessel DL (Eds.) Williams & Wilkins, Baltimore, MD. 1998;29:447-460.
38. Lock JE. PFO is indicted, but the case hasn't gone to trial. Circulation 2000;101:838.
39. Keane JF, Lock JE, Perry SB. Diagnostic cardiac catheterization in infants and children. In Grossman's Cardiac Catheterization, Angiography, and Intervention, 6<sup>th</sup> Edition. Baim DS, Grossman W. (Eds.) Williams & Wilkins, Baltimore, MD. 2000;6:125-135.
40. Perry SB, Keane JF, Lock. Pediatric interventions. In Grossman's Cardiac Catheterization, Angiography, and Intervention, 6<sup>th</sup> Edition. Baim DS, Grossman W. (Eds.) Williams & Wilkins, Baltimore, MD. 2000;28:735-755.
41. Keane JF, Perry SB, Lock JE. Profiles in congenital heart disease. In Grossman's Cardiac Catheterization, Angiography, and Intervention, 6<sup>th</sup> Edition. Baim DS, Grossman W. (Eds.) Williams & Wilkins, Baltimore, MD. 2000;34:851-871.
42. Strauss A, Lock JE. Pediatric cardiomyopathy: A long way to go. New Engl J Med. 2003;348:1703-1705.
43. Marshall AC, Lock JE. Leaving neverland: A randomized trial for coarctation shows pediatric cardiology is growing up. Circulation 2005;111:3347-3348.
44. Lock JE. Cardiac Catheterization. In Nadas' Pediatric Cardiology. Keane JF, Lock JE, Fyler DC (Eds). Elsevier, Philadelphia, PA 2006;14:213-250.
44. Bergersen L, Lock JE. Pulmonary artery stenosis. Angioplasty, stenting or cutting balloon: what is the current treatment of the first choice? A review. Cardiology in the Young. 2006;16:329.
45. Lock JE. Device availability for the child with heart disease. J Am Coll Cardiol. 2007;49:2222.
46. Lee TH, Torchiana DF, Lock JE. Is zero the ideal mortality rate? N Eng J Med. 2007;357(2):111-113.

47. McElhinney DB, Lock JE. Transcatheter interventions for mitral valve disease in children. In Heart Disease, 8<sup>th</sup> Edition. Braunwald E. (Ed.). Elsevier. In Press.
48. Marshall AC, Lock JE. Still working on our short game: Technique and accuracy of stent placement in congenital heart disease. J Am Coll Cardiol. In Press.