

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

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, 2nd Edition. Lock JE, Keane JF, Perry SB (Eds). Kluwer, Boston, 1999.

Nadas' Pediatric Cardiology, 2nd 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-PGE¹ 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 I₂ 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, Vlodaver 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.
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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.
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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.

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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.
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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.
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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.
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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.

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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.
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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.

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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.
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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.

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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.
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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.
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108. Perry SB, Lock JE. Frontloading of double umbrellas: Improved delivery of umbrella devices. *Am. J Cardiol*, 1992;70:917-920.
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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.
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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.
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