

CURRICULUM VITAE

LISA RACHELLE KLEIN, MD, FAAP, FACC

Heart to Heart Pediatric Cardiology PLLC

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UNDERGRADUATE EDUCATION

9/78 - 6/82 Brown University, Providence, Rhode Island
Degree: BA in Biology
Honors in Organic Chemistry
Honor Society: Sigma XI, The Scientific Research Society

MEDICAL EDUCATION

8/1992 – 5/1986 SUNY Health Sciences Center at Syracuse, Syracuse, New York
Degree: M.D.
Honors in Microscopic Anatomy, Nutrition, Introduction to Clinical
Medicine

POST GRADUATE TRAINING

Internship (Pediatrics)

7/1986 – 6/1987 Tulane University Medical Center, Department of Pediatrics
New Orleans, LA

Residency (Pediatrics)

7/1987 – 6/1989 The New York Hospital – Cornell Medical Center, Division of Pediatrics
New York, NY

Fellowship (Pediatric Cardiology)

7/1989 – 6/1992 The New York Hospital – Cornell Medical Center, Division of Pediatric
Cardiology, New York, NY

ACADEMIC APPOINTMENTS

- 7/1990 – 6/1992 Assistant Attending Pediatrician
New York Hospital – Cornell Medical Center
New York, NY
- 7/1995 – 6/1999 Assistant Clinical Professor of Pediatrics (Gratis)
University of Louisville, SOM
Louisville, KY
- 7/1999 – 7/2001 Assistant Professor of Pediatrics (C.S.)
University of Louisville, SOM
Louisville, KY
- 7/2001 – 8/2008 Associate Professor of Pediatrics (Term)
University of Louisville, SOM
Louisville, KY
- 8/1/2011- 8/2015 Associate Professor of Pediatrics
University of Kentucky COM
Lexington, KY
- 6/2016-present Application submitted for gratis faculty at U of L SOM
(Pending appointment as Associate Professor of Pediatrics)

PROFESSIONAL EXPERIENCE

- 7/1990 – 6/1992 Assistant Attending Pediatrician, Pediatric Acute Care Unit
The New York Hospital – Cornell Medical Center, New
York, NY
- 1/1991 – 3/1992 Pediatric Consultant, HIP of Greater New York, New York, NY
- 7/1992 – 8/2008 Pediatric Cardiologist, Pediatric Cardiology Associates, PSC
602 Children's Foundation Building, Louisville, KY
- 7/1992 – 8/2008 Attending Pediatric Cardiologist, Kosair Children's Hospital
200 East Chestnut Street, Louisville, KY

7/1995 – 6/1999	Assistant Clinical Professor of Pediatrics (Gratis), University of Louisville School of Medicine, Louisville, Kentucky
7/1999 - 7/2001	Assistant Professor of Pediatrics (C.S.), University of Louisville School of Medicine, Louisville, Kentucky
7/2001- 8/2008	Associate Professor of Pediatrics (Term), University of Louisville School of Medicine, Louisville, Kentucky
8/2008-5/2011	Pediatric Cardiologist and Medical Director of The Sanger Heart and Vascular Institute, Hickory Satellite Office, Hickory, NC
8/2011-8/2015	Associate Professor of Pediatrics, University of Kentucky, Division of Pediatric Cardiology, Department of Pediatrics, Lexington, KY
8/2011-8/2015	Attending Pediatric Cardiologist, Kentucky Children’s Hospital, Lexington, KY
9/2015-present	Owner/Founding Member Heart to Heart Pediatric Cardiology PLLC

MEDICAL LICENSURE

Active: Kentucky #29111

Inactive: Indiana #01040582
New York #172414
Louisiana #019220
Wisconsin #42566-020
North Carolina #149660

BOARD CERTIFICATION

American Board of Pediatrics – 1989
Recertified - 2000
ABP – Sub Board of Pediatric Cardiology – 1994
Recertified – 2001, 2008 (Next scheduled exam 2018)

UK DEPARTMENT OF PEDIATRICS COMMITTEES

2012-2015 Residency Candidate Interviewer
2012-2015 Core Competency Committee

UNIVERSITY OF LOUISVILLE COMMITTEES

1992 - 2008 Fetal Board Dept of OB/GYN U of L
1998 - 2008 Executive Faculty Dept of Pediatrics U of L
1999 - 2008 Faculty Forum U of L
2001 - 2002 Secretary of Faculty Forum
2002 - 2003 Vice-Chair for Faculty Forum U of L
2002 - 2008 Pediatrics Residency Review Committee

GLMS COMMITTEES

2007 - 2008 Physician Practice Advocacy Committee
2006 - 2008 Ethics Committee

PROFESSIONAL MEMBERSHIP AND ACTIVITIES

American Medical Association
American College of Cardiology
American Academy of Pediatrics
Kentucky Pediatric Society
Louisville Pediatric Society
Greater Louisville Medical Society
American Society of Echocardiography
American Heart Association

ADMINISTRATIVE SERVICES

Director of Preventive Pediatric Cardiology U of L (2004-2008)
Director of Fetal Echocardiography U of L Peds Cardio (1995-2008)
Director of Medical Education for Pediatric Cardiology Division (1999-2006)
Coach for AEHR UK Division of Pediatric Cardiology (2012-2015)

AWARDS & HONORS

1981 Honors: Organic Chemistry, Brown University

1982 Sigma XI, The Scientific Research Society
Brown University Chapter

1987 Honors: Microscopic Anatomy, Nutrition and Introduction to Clin Med

1996 Distinguished Service Award – Wayside Christian Mission

1998 Mayor Jerry Abramson Citation for Community Service (“Key to the City”)

2000 University of Louisville Community Service Award

2003, 2004, 2006 JCPS Champion for Children

2007, 2008 Louisville Magazine “Top Doc”

May 2013 Faculty-of-the-Month, UK Department of Pediatrics Residency Program

LECTURES/PRESENTATIONS

5/93 Diastolic dysfunction in patients with B thalassemia major: correlation with iron loading status. Presented at the International Society of Heart Failure, Geneva, Switzerland.

5/20-21/94 Symposium on Fetal Cardiology: “A Womb With a View”; Course Director and Lecturer on Technique of Level II Fetal Echocardiography.

1/1995 Clinical Pathological Correlation: A 21 Month Old with Congestive Heart Failure. Presented at Grand Rounds for University of Louisville Depart of Pediatrics. .

9/1995 Cyanotic Congenital Heart Defects: Diagnosis and Management. Annual Nursing Symposium.

5/1996 Neurocardiogenic Syncope: A Review. Presented at Noon Conference.

7/1997 Surgical Repair of Congenital Heart Defects. UCHS Team Attending Lecture.

6/12/1998 Ready, Set, Stop: Participation in Sports for Healthy Children and Children with CHD. Pediatric Grand Rounds (with Dr. Sobczyk)

1/1999 Interpretation of Pediatric ECGs Resident Lecture.

7/08/1999 Left to Right Shunt Lesions: Diagnosis and Management. Resident Lecture.

7/09/1999 Congestive Heart Failure: Definition, Diagnosis and Management. Resident Lecture.

9/21/1999 Rheumatic Fever Resident Lecture.

9/22/1999 Cardiomyopathy Resident Lecture.

9/24/1999 Endocarditis/Pericarditis Resident Lecture.

10/12/1999 Human Subject Protections Seminar (New Faculty Workshop)

12/1999 Pediatric Cardiac Critical Care Symposium.

12/17/1999 SVT Resident Lecture.

1/18/2000 SVT Resident Lecture.

2/17/2000 Health Promotion Schools of Excellence Health Fair demonstration.

2/2000 Pediatric Residents' Lecture "Arrhythmias".

2/2000 Pediatric Residents' Lecture "Cardiac Malposition".

4/2000 University of Louisville, Department of Obstetrics and Gynecology, Lecture "Prenatal Detection of Heart Defects and Fetal Arrhythmias".

10/4/2000 WAVE Television Top News Report "Transplant Patient".

4/2001 Pediatric Residents' Lecture "SBE".

4/2001 Glasgow Clinic Lecture/CME Grand Rounds, "Infective Endocarditis".

Ward Attending Pediatric Lectures Series:

5/08/2001 "EKG"

5/9/2001 "ASD"

5/10/2001	“VSD”
5/11/2001	“PDA”
5/17/2001	“AV Canal”
5/23/2001	“SBE”
10/2002	Bedside Lecture Tetralogy of Fallot
3/2003	Neonatal Nursing Symposium: Cyanotic Congenital Heart Defects
4/2003	Heart Sounds, Murmurs and Cyanotic Congenital Heart Defects Resident Lecture
03/2004	39 th Annual Postgraduate Nursing Symposium: “Congenital Cyanotic Heart Defects in Newborns”
05/2004	Resident & Students Lecture “Acquired Heart Disease” Pediatric Emergency Department Nurses, “Cardiac Gun Shot Wounds”
07/2004	“Heart Sounds & Murmurs” Resident Lecture Cyanotic Congenital Heart Defects Resident Lecture
03/2005	Invited Lecturer, 27 th Annual Primary Care Review, “Cardiac Auscultation: Heart Sounds & Murmurs” Jewish Rudd Heart and Lung Center
03/2005	Invited Lecturer, 40 th Annual Postgraduate Nursing Symposium “Congenital Cyanotic Heart Lesions in the Newborn”, Cranmer Auditorium, Norton Health Care Pavilion
07/2005	Pediatrics Grand Rounds, Norton Hospital, “Preventive Cardiology in Children”.
08/2005	Pediatric Residents Lecture “Heart Sounds and Murmurs”.
02/2006	Neonatal Lecture, “Cyanotic Congenital Heart Defects”.
03/2006	“Cyanotic Congenital Heart Defects in Newborns” Nursing Lectures.
10/20/2006	“Physical Diagnosis” Tutorial with 2 nd Year Medical Students; University of Louisville, Instructional Building Simulation Center.
05/10/07	“Cyanotic Heart Disease” Lecture Series for Adult Cardiology Fellows. Division of Adult Cardiology, University of Louisville.
06/06/2007	Health Promotion Schools of Excellence, “Obesity in Children”.
08/20/2007	“Physical Diagnosis” Tutorial with 2 nd Year Medical Students; University of Louisville, Instructional Building Simulation Center.

- 11/5/2007 Current Guidelines for Prevention of Infective Endocarditis; Presented to Louisville Alpha Omega Dental Society
- 11/9/2007 "Prevention of Infective Endocarditis" Grand Rounds Department of Pediatrics, U of L SOM/ Norton Hospital.
- 9/28/2010 Overview of CHD Presented at Annual Trivette Symposium, Frye RMC, Hickory, NC
- 10/12/2011 Acyanotic Congenital Heart Disease Lecture presented at Pediatrics Resident Noon Conference MN-136
- 10/17/2011 Cardiac Examination/Auscultation Presented to students in the Athletic Training Program at Eastern Kentucky University, Richmond, KY
- 10/18/2011 Cyanotic Congenital Heart Defects in Newborns Presented to Neonatology Fellows, PA students and nurse practitioners at KCH
- 9/12/2012 Acyanotic CHD and Obstructive Cardiac Lesions presented at noon conference to Pediatrics and Med-Peds Residents
- 11/2/2012 Neonatal Congenital Heart Disease: Diagnosis and Management presented to Neonatology PA and 4th year medical student
- 4/18/2013 Subspecialty Resident Lecture: Cardiac Auscultation
- 4/19/2013 Subspecialty Resident Lecture: Cyanotic CHD in Newborns
- 6/12/12 Resident Noon Conference: Cardiac Involvement of Systemic Diseases
- 8/8/13 Subspecialty Resident Lecture: Cardiac Auscultation
- 10/6/13 Subspecialty Resident Lecture: Cardiac Auscultation
- 10/28/13 Resident Noon Conference: Acyanotic Congenital Heart Disease
- 1/8/14 Resident Noon Conference: Pediatric Lipid Disorders
- 4/27/14 Every Beat Counts: Heart Health in Women (Hadassah Presentation)
- 8/4/14 Resident Lecture: Approach to Pediatric ECGs
- 8/13/14 Resident Noon Conference: Cardiomyopathies
- 8/15/14 Subspecialty Resident Lecture: Approach to Pediatric ECGs
- 9/30/14 Subspecialty Resident Lecture: Evaluation of Heart Murmurs

- 10/6/14 Resident and Student Lecture: Pediatric ECGs
- 10/20/14 Resident and Student Lecture: Pediatric ECGs
- 4/6/15 Resident Noon Conference: Lipid Management in Children
- 6/1/15 Resident Lecture: Reading Pediatric ECGs

ADDITIONAL ACADEMIC ACTIVITY

- 1996-2008 Introduction to Medical Practice Preceptorship Program
- 09/2002 Clinical Skills Labs: Cardiac Exam for 1st Year Medical Students
- 07/2002-12/2005 Director of Medical Education for UofL Division of Peds Cardiology
- 08/22/2007 GLMS Preceptor for 1st year student Anatomy Lab “Heart”
- 09//2010 Moderator, SEPCS Symposium on Pediatric Pulmonary Hypertension; Charlotte, NC
- 11/2012-8/2015 Preceptor for First Year Medical Student Shadowing Experience (Longitudinal visits to clinic with one-on-one teaching at bedside)
- 3/23/16-present Preceptor for U of L MS1 and MS2 Shadowing Experience

ABSTRACTS AND PRESENTATIONS

- 5/1993 Diastolic dysfunction in patients with B thalassemia major: correlation with iron loading status. Presented at the International Society of Heart Failure, Geneva, Switzerland. (May 1993)
- 6/1995 Sobczyk WL, Solinger R, Rees A, **Kirsch L**, Elbl F. “Three Year Evaluation of Trans-telephonic Echocardiography in a Regional Tertiary Pediatric Care Center.” *American Society of Echocardiography, 67th Annual Scientific Session.*
- 2/2003 Louthan MV, **Klein, LR**, Looney SW*, Hagan JL*, Jones VF. “Effect of Parental Weight on the Risk of Being Overweight in Preadolescents” *2003 Southern Regional Meetings, New Orleans.*

9/2014 Rozema, T and **Klein, LR**. Takotsubo Cardiomyopathy in a Premature Infant. Submitted to SSPR (for presentation in February 2015).

RESEARCH EXPERIENCE

- 1980 – 1981 Effects of dietary alterations on organ regeneration and tumorigenesis in the rat liver (Under the direction of Nelson Fausto, PhD at Brown University, Providence, RI)
- Summer 1981 Protein purification in study involving isolation techniques (resulted in publication...see below). Thomas Finlay, PhD Department of OBGYN, New York University Medical Center
- Summer 1983 Study of testosterone treatment of boys with short stature with Robert A. Richman, Department of Pediatric, SUNY Health Sciences at Syracuse, Syracuse, New York; Testosterone treatment in adolescent boys with constitutional delay in growth and development. NEJM 1988; 319:1563-7.
- Spring 1984 Designing a test for olfaction in the pediatric age group (submitted to SPR 5/84) Robert A. Richman, SUNY Health Sciences at Syracuse, Syracuse, New York.
- 1989 – 1991 Investigation of Diastolic Filling Abnormalities in patients with Thalassemia Major: Journal of Cardiovascular Diagnosis and Procedures 1993; 11:157-165.
- 2002 – 2003 Effect of Parental Weight on Risk of Overweight in Preadolescents
2003 Southern Regional Meetings, New Orleans February 2003.

PUBLICATIONS

1. Finlay, Thomas, et al; Estrogen stimulated uptake of plasminogen by the mouse uterus; Endocrinology 1983; 112:856-61.
2. Richman, Robert A. and **Kirsch LR**; Testosterone treatment in adolescent boys with constitutional delay in growth and development. NEJM 1988; 319:1563-7.

3. **Kirsch, LR**, Sos, Thomas and Engle, Mary A.; Successful coil embolization of multiple diffuse pulmonary arteriovenous fistulas: *American Heart Journal*, July 1991.
4. **Kirsch, LR**; Weinstock, D.J., Magid, M.S., Levin, A.R., Gold, J.P.; Treatment of Presumed Arrhythmogenic Right Ventricular Dysplasia in an Adolescent. *Chest* 1993; 104:298-300.
5. **Kirsch, LR**; Stein, Kenneth; Snyder, Michael S.; Ehlers, Kathryn H.; Diastolic Filling Abnormalities in Asymptomatic Patients with Thalassemia Major: Correlation with Iron Loading Status. *Journal of Cardiovascular Diagnosis and Procedures* 1993; 11:157-165.
6. Sobczyk WL, Solinger R, Rees A, **Kirsch L**, Elbl F. "Three Year Evaluation of Trans-telephonic Echocardiography in a Regional Tertiary Pediatric Center." *J Am Soc Echocardiogr* 1995;8(3):17E
7. Sobczyk WL, **Kirsch L**, Austin E, Elbl F, Solinger R, and Rees A. Successful Double Coronary Bypass Grafting in a Child with Coronary Artery Obstruction Due to Kawasaki Disease. *South Med J* 1996; 89:420-421.
8. Das, B. B. Recto, M. Johnsrude, C. **Klein, L**. Orman, K. Shoemaker, L. Mitchell, M. Austin, E H. Cardiac transplantation for pediatric giant cell myocarditis. *Journal of Heart and Lung Transplant* 2006; 25:474-8.
9. **Klein, Lisa R**. "Click, Tap, Sign, Submit"; *Medicine in Verse*; Greater Louisville Medical Society Magazine; p. 32; April 2013
10. Rozema, T and **Klein, LR**. Takotsubo Cardiomyopathy: a case report and literature review. *Cardiology in the Young* (2015): 1-4.

RECENT CME (See CME Log for detailed history including attendance at weekly Patient Management Conferences)

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|---------|---|
| 10/2009 | All Children's Hospital 7 th Annual Symposium on Advances in Perinatal Cardiology, University of South Florida, St. Petersburg, FL |
| 09/2010 | Adult Congenital Heart Disease, University of Minnesota Medical School |
| 09/2010 | 43 rd Annual Meeting of the Southeast Pediatric Cardiology Society, Charlotte Area Health Education Center, Charlotte, NC |
| 10/2010 | Fetal Echocardiography Update, Educational Symposia, Wynn Encore, Las Vegas, NV |
| 1/2011 | 8 th Basic Cardiac MR Symposium, ACR/Stanford University Medical Center and |

- 1//2011 6th Advanced Cardiac Imaging Symposium, ACR/Lucile Packard Children's Hospital, Palo Alto, CA
- 10/2011 Contemporary Pediatrics, Wake Forest School of Medicine, Hickory, North Carolina
- 10/2011 Controversies in Pediatric Heart Disease, Sponsored by Children's Hospital at Montefiore, Harvard Club, NY, NY
- 1/2013 Phoenix Symposium on Fetal Cardiology
- 2/2014 Pediatric Cardiology 2014: CHOP conference @Orlando
- 2/2015 Pediatric Cardiology 2015: CHOP conference @Scottsdale
- 2/2016 Pediatric Cardiology 2016: CHOP conference @ Orlando
- 9/2016 AAP Specialty Review in Pediatric Cardiology

COMMUNITY SERVICE

- 1976-present Hadassah Women's Zionist Organization (Life Member)
- 1996 (Christmas) Wayside Christian Mission-Soup Kitchen Volunteer
- 1993-1999 The Temple (Louisville, KY) Pre-School Parent Volunteer
- 1996-2002 Ronald McDonald House Board Member
- 1999-2008 Jefferson County Public Schools Parent Volunteer
- 2005-present National Council of Jewish Women-Louisville Section (Life Member)
- 2008-2011 Temple Beth Shalom (Hickory, NC) Sisterhood
- 2009-2011 Clater-Kaye TheatreWorks Fundraiser
- 2010-2011 Temple Beth Shalom (Hickory, NC) Board Member
- 2012-2014 Center Stage Board Member and Volunteer for LightUp Center Stage
- Sept/Oct 2013 Partnership 2Gether Mission to Israel
- 2013-2015 CAT Advisory Board (UK)
- 2013-present Hadassah Louisville Chapter
- 2014-present CCSHCN Medical Advisory Committee
- 2015-present AHA You're the Cure Advocate
- 2015-Feb 2016 JCC Louisville 125th Anniversary Gala Planning Committee
- 2015-present JCC Membership Committee
- July 2016-present JFCS Board Member
- August 2016-present Partnership 2Gether Central Area Consortium Co-Chair
- September 2016-present AHA Open Your Heart Committee

HOBBIES

Harp, Piano, Reading (Book Club), Yoga, Pilates, Hiking, Gardening, Traveling