

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Kaelber, David Charles		POSITION TITLE Chief Medical Informatics Officer	
eRA COMMONS USER NAME (credential, e.g., agency login) dkaelber		Assistant Professor of Internal Medicine and Pediatrics	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Duke University	BME	1991	Biomedical/Electrical Engineering
Case Western Reserve University	MS	1994	Biomedical Engineering
Case Western Reserve University	PhD	1999	Biomedical Engineering
Case Western Reserve University	MD	2000	
Harvard University	MPH	2008	Clinical Effectiveness

**A. Positions and Honors.**

**Positions and Employment**

- 1990-1991 National Science Foundation/Engineering Research Center Fellow, Department of Biomedical Engineering, Duke University, Durham NC
- 1991-1999 Research Fellow, Department of Biomedical Engineering, Case Western Reserve University, Cleveland OH
- 2000-2004 Resident Physician, Internal Medicine and Pediatrics Residency, The MetroHealth System, Case Western Reserve University, Cleveland OH
- 2004-2005 Senior Instructor and Chief Resident, Internal Medicine and Pediatrics Department, The MetroHealth System, Case Western Reserve University, Cleveland OH
- 2005-2008 Senior Instructor, Assistant Program Director, Medical Director, and Attending Physician, Internal Medicine and Pediatrics Department, The MetroHealth System, Case Western Reserve University, Cleveland OH
- 2005-2008 Medical Informatics Fellow, Center for Information Technology Leadership, Partners Healthcare, Harvard University, Boston OH
- 2008- Chief Medical Informatics Officer, Assistant Professor, Assistant Residency Program Director, and Attending Physician, Internal Medicine and Pediatrics Department, The MetroHealth System, Case Western Reserve University, Cleveland OH
- 2009- Senior Scholar, Center for Healthcare Research and Policy, The MetroHealth System, Case Western Reserve University

**Other Experience and Professional Memberships (Selected)**

- 1995-2000 Medical College Admission Test Instructor and Course Director, The Princeton Review
- 2000-2001 Board of Directors. Web Hosting Headquarters.
- 2000-2001 American Academy of Pediatrics Assistant District V Coordinator
- 2000-2004 American Academy of Pediatrics Program Delegate
- 2001-2002 National Med-Peds Residents' Association Treasurer
- 2001-2003 MetroHealth System House Officers' Association Treasurer
- 2001-2004 American Academy of Pediatrics District V Coordinator
- 2001-2006 MetroHealth System Personal Digital Assistant (PDA) Library Users Group
- 2001-2006 MetroHealth System Graduate Medical Education Committee
- 2001-present National Med-Peds Residents' Association Webmaster
- 2002-2003 National Med-Peds Residents' Association President
- 2003-2004 National Med-Peds Residents' Association President Emeritus
- 2003-2005 American Academy of Pediatrics Clinical Case Presentation Program Founder and Chair

2003-2005 MetroHealth System House Officers' Association President  
2004-present National Med-Peds Residents' Association Advisor  
2005-2007 American Medical Association eMedicine Advisory Committee  
2005-2008 Journal of the American Medical Informatics Association (JAMIA) Editorial Board  
2005-present American Academy of Pediatrics Med-Peds Section Executive Committee  
2005-present American Medical Informatics Association Student Working Group Executive Committee  
2006-present Peer Reviewer for *Medical Decision Making*  
2007-present Peer Reviewer for *Archives of Pediatrics and Adolescent Medicine* and *International Journal of Medical Informatics*  
2008 American Medical Informatics Association Student Working Group Chair-Elect  
2008-present Peer Reviewer for *American Journal of Hypertension*, *Archives of Pediatrics and Adolescent Medicine*, *Journal of the American Medical Association*, *Medical Decision Making*, *Pediatrics*, and *Quality Management in Health Care*  
2008-present Northeast Ohio Regional Health Information Organization (NEO-RIO) Board Member  
2009-present American Medical Informatics Association Student Working Group Chair

### **Honors**

1990 National Science Foundation/Engineering Research Center Fellow (Duke University)  
1991 National Institutes of Health (NIH) Training Grant  
2001 Peter Adam Scientific Achievement Award  
2001 Pediatric Leadership Award (Department of Pediatrics, MetroHealth System)  
2002 The Paul W Ambrose Resident Physician Leadership Symposium  
2002 Pediatric Leadership Alliance (American Academy of Pediatrics Young Leaders)  
2002 Gary Onday, MD, PhD Award (outstanding Med-Peds Resident at the national or regional level)  
2004 Alpha Omega Alpha  
2004 MetroHealth Medical Center Research Day (1<sup>st</sup> Place)  
2004 Pediatric Research Award (1<sup>st</sup> Place)  
2004 Senior Resident Teaching Award  
2004 Pfizer Scholar in Internal Medicine  
2004 Rajiv M. Reddy M.D. Academic Achievement Award  
2006 Fellow of the American Academy of Pediatrics  
2006 Excellence in Mentorship, Commitment and Outstanding Leadership Award (MetroHealth System)  
2006 Scholars in Teaching Award (Case Western Reserve University)  
2007 Ruth L Kirchstein National Research Service Award (National Research Service Award)  
2007 American Academy of Pediatrics Committee on Clinical Information Technology Best Paper Award  
2007 American Health Association Top Ten Research Advances in Stroke and Cardiovascular Medicine  
2008 Healthcare Information and Management Systems Society Dvora Brodie Scholarship  
2008 Massachusetts Medical Society's Committee on Information Technology Student and Resident Information Technology Award  
2008 The John J W Fangman Award (outstanding Med-Peds mentorship) (Harvard University)  
2008 *Ladies' Home Journal* Health Breakthrough Award

### **B. Selected Related Peer Review Publications (from over 75 publications and abstracts)**

1. ML Hanson, PW Gunn, and DC Kaelber. Underdiagnosis of Hypertension in Children and Adolescents. Journal of the American Medical Association. 2007 Aug 22;298(8):874-9. PMID:17712071.
2. D Johnston, **D Kaelber**, EC Pan, D Bu, S Shah, JM Hook, and B Middleton. *A Value Framework for Personal Health Records (PHRs). American Medical Informatics Association Annual Symposium Proceedings. 2007 Oct 11:374-8. PMID:18693861.*
3. A Vincent, CM Cusack, E Pan, JM Hook, **D Kaelber**, and B Middleton. *A New Taxonomy for Telehealth Technology. American Medical Informatics Association Annual Symposium Proceedings. 2007 Oct 11:1145. PMID:18694241.*

4. **DC Kaelber**, V Miller, N Fisher, J Schlesinger, and G Norris. *Ambulatory Electronic Medical Record Payback Analysis 7 years after Implementation in a Tertiary Care County Medical System.* American Medical Informatics Association Annual Symposium Proceedings. 2007 Oct 11:1000. PMID:18694241.
5. **DC Kaelber** and DW Bates. *Health Information Exchange and Patient Safety.* Journal of Biomedical Informatics. 2007 Dec;40(6 Suppl):S40-5. Epub 2007 Sep 7. Review. PMID:17950041.
6. CM Cusck, E Pan, JM Hook, A Vincent, **DC Kaelber**, and B Middleton. *The value proposition in the widespread use of telehealth.* Journal of Telemedicine and Telecare. 2008; 14: 167-168. PMID:18534947.
7. E Pan, C Cuscak, J Hook, A Vincent, **DC Kaelber**, DW Bates, and B Middleton. *The value of provider-to-provider telehealth.* Telemedicine and E-Health Journal. 2008 Jun;14(5):446-53. PMID:18578679.
8. **DC Kaelber**, KJ Ashish, D Johnston, B Middleton, and DW Bates. *A Research Agenda for Personal Health Records (PHRs).* Journal of the American Medical Informatics Association. 2008 Nov-Dec; 15(6):729-36. Epub 2008 Aug 28. PMID:18756002.
9. A Vincent, **DC Kaelber**, E Pan, S Shah, and B Middleton. *A Patient-Centric Taxonomy for Personal Health Records (PHRs).* American Medical Informatics Association Annual Symposium Proceedings. 2008 Nov 6:763-7. PMID:18998912. (received Distinguished Paper Award from American Medical Informatics Association)
10. S Shah S, **DC Kaelber**, A Vincent, EC Pan, D Johnston, and B Middleton. *A Cost Model for Personal Health Records (PHRs).* American Medical Informatics Association Annual Symposium Proceedings. 2008 Nov 6:657-61. PMID:18998988.
11. **DC Kaelber** and EC Pan. *The Value of Personal Health Records (PHR) Systems.* American Medical Informatics Association Annual Symposium Proceedings. 2008 Nov 6:343-7. PMID: 18999276.
12. LJ Benson, H Baer, **DC Kaelber**. *Trend in the Diagnosis of Overweight and Obesity in Children and Adolescents: 1999-2007.* Pediatrics. 2009 Jan;123(1):e153-8. PMID:19117837.
13. **DC Kaelber** and FA Pickett. *A Simplified Table to Identify Children and Adolescents Needing Further Evaluation of Blood Pressure.* Pediatrics. 2009. (Accepted)
14. LJ Benson, RC Cohn, and **DC Kaelber**. *The Association of Continuity of Care on the Diagnosis of Hypertension in Children and Adolescents.* Journal of Child Healthcare. 2009. (Accepted)

## C. Research Support

### Ongoing Research Support

National Institutes of Health (Kaelber, Co-Investigator)09/2008-06/2012  
Clinical and Translational Science Award  
Informatics lead to the Cleveland Translational and Science Consortium from the MetroHealth System (0.05 FTE).

Epic Systems Corporation (Verona WI) (Kaelber, Director) 07//2008-06/2010  
EPIC Clinical Informatics Fellowship. Inaugural recipient of unrestricted funding from the EPIC Systems Corporation to create a clinical informatics fellowship within the MetroHealth System.

Program Director/Principal Investigator (Last, First, Middle): Kaelber, David Charles

**Completed Research Support**

American Academy of Pediatrics (Kaelber, Sponsor/Mentor) 07/2007-06/2008

American Academy of Pediatrics Resident Research Grant

Entitled: Evaluation of Murmurs in Children using Heart Energy Signatures (HES)

New Hampshire Industrial Research Council (Kaelber, Co-PI) 01/2008-12/2008

Entitled: Evaluation of Murmurs in Children using System of Quantitative Scores and Heart Energy Signature Method.