Kathleen Elizabeth Walsh, MD, MSc Division of General Pediatrics Department of Pediatrics

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Education

	Master of Science in Epidemiology Boston University School of Public Health, Boston, MA	2002-2005
	General Academic Pediatrics Fellow Boston University School of Public Health, Boston, MA	2002-2005
	Pediatric Chief Resident Brown University School of Medicine, Providence, RI	2001-2002
	Residency, Pediatrics Brown University School of Medicine, Providence, RI	1998-2001
	Research Internship Eastern Virginia Medical School, Norfolk, VA	1997-1998
	Doctor of Medical School, Washington, MD	1992-1998
	Bachelor of Arts, College of Arts and Sciences Cornell University, Ithaca, NY	1988-1992
Academic Appointmer	nts	
	Assistant Professor of Pediatrics Department of Pediatrics, University of Massachusetts Medical School, Worcester, MA Instructor of Pediatrics	2005-current 2003-2005
	Boston University School of Medicine, Boston, MA	
Administrative Appoin	tments	
	Physician Quality Officer, UMass Medical Center Clinical Director, Pediatric Primary Care Clinic	2007-present 2008-present
Other Employment		
	Pediatrician (clinical responsibility in fellowship) East Boston Neighborhood Health Center, East Boston, MA	2002-2005
	Pediatrician (moonlighter) Andover Pediatrics, Andover, MA	2005

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Research Assistant
Cytomed, Inc, Cambridge, Massachusetts

Research AssistantSummersBiogen, Cambridge, Massachusetts1990, 1991

Certification and Licensure

Massachusetts Medical License (active)	2005-current
Fellow, American Academy of Pediatrics	2005-current
American Board of Pediatrics	2001-current
National Board of Medical Examiners	1998-current

Honors and Awards

Cancer Research Network Scholar	2009-present
UMass Champion of Excellence Team Award for Medication	2008
Reconciliation	
Robert Wood Johnson Physician Faculty Scholars Award	2007-2010
Hoffenreffer Award for Leadership in Pediatrics	2001
Edward Collins Memorial Fund Award for Child Advocacy	2000
AAP Section on Allergy and Immunology Research Travel	1998
Grant	

Professional Memberships and Activities

National

	CDC Protect Rx Initiative, Invited participant	2011-present
	American Academy of Pediatrics Pediatric Patient Safety Invitational Meeting	2011-present
	American Academy of Pediatrics Quality Improvement Committee; Patient Safety Subcommittee	2011-present
		2006-present
	Academic Pediatric Associatition	
	HMO Research Network	2005-present
	Pediatric Special Interest Group Co-Chair	2009-present
	American Academy of Pediatrics	2001-present
	CATCH Committee Resident Liaison	2001-2002
Regional		
-	Massachusetts Child Health Quality Coalition	2011-present
	Co Chair, First Northeast Regional Advocacy Conference	2000
Editorial Responsibilit	ies	

Journal of Clinical Oncology, reviewer	2010-present
Journal of Oncology Practice, reviewer	2010-present
Journal of General Internal Medicine, reviewer	2007-present
Pediatrics, reviewer	2005-present
Archives of Disease in Childhood, reviewer	2005-present
Quality and Safety in Healthcare, reviewer	2005-present

Educational Activities

	Teaching responsibilities	(students, residents,	and fellows)
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	Home medication use in children: Developing web-based and in person curriculum for all pediatric residents teaching them how to help parents take care of children with chronic conditions at home. Work supported by a Picker/Gold grant	2010-present
	Journal Club for Pediatric Residents. Teaching residents to prepare (three residents) and lead journal club (10-15 residents) in two monthly meetings, director	2010-present
	Primary Care Resident Clinic Preceptor. Weekly 1 on 1 precepting of pediatric resident during her entire 3 year primary care clinic experience (4 hours weekly)	2008-present
	Longitudinal Preceptorship Program Preceptor. Weekly 1 on 1 precepting of a medical student in clinic (4 hours weekly)	2006-2008
	Evidence Based Medicine. Monthly 2 hour hands on teaching for medical students, 10 students per class, lecturer	2006-2007
Research a	and Quality Improvement Supervision/Trainees	
	Advise Steve Erban, MD,MPH (Associate Professor of Medicine, UMass) in his development and execution of a quality improvement project to reduce inaccurate medication allergies information in the electronic health record.	2010-present
	Supervised Corey Bradley (Davidson college '11) in a summer research project on pediatric resident education about home medication errors. Culminated in publication currently under review at Academic Medicine, for which Corey is the first author. Corey also has a poster presentation at the Pediatric Academic Societies 2011 meeting. She is currently a college senior planning to apply to medical school in a year.	2010-present
	Supervised Roxanne Almas, MD, MPH (Pediatric Resident, UMass) in her advocacy project developing a vaccine information sheet for parents of refugee children and educating refugee parents on child health. Culminated in successful award of an American Academy of Pediatrics (AAP) Community Access to Child Health (CATCH) grant and AAP New Century Scholars Award. Dr Almas is starting a Development Fellowship at Brown in Summer 2011.	2009-present
	Advise Neal Tyrrell, MD(Assistant Professor of Pediatrics, UMass) in his development and execution of a quality improvement project teaching parents of hospitalized children how to give medicines at home. Currently	2009-present

Pediatric Hospitalist at UMass.

Supervised Brian Sard, MD (BMC Pediatric ED Fellow) in his fellow's research project on using health IT to prevent pediatric medication errors in the Emergency Department. Culminated in successful funding of Brian's research by BMC small grant and in a *Pediatrics* publication. Currently a practicing ED physician at St Luke's Hospital.

Grants

<u>Current</u>

AHRQ Task Order #13 <i>The AHRQ Harm Scale: Validation with L</i> Perform cognitive testing and test interrate \$535,964 (total) Role: Col on supplement project (20% eff	Adverse Events er reliability of new AHF	ia (PI) RQ harm scale	9/1/11-8/31/12
FDA MiniSentinel Signal Refinement of a New Molecular Er Develop a protocol for a one-time assess hypersensitivity reactions using Mini-Sent \$26,674 (our site in this multisite project) Role: CoPI (20% effort)	<i>ntity</i> ment of the association	alsh (co-PI) of a new molecular entit	9/1/11-12/31/11 ty with severe
FDA MiniSentinel Case Identification and Validation/Adjudica Develop case identification method to ide positive predictive value of the method ag \$180,541 Role: CoPI (20% effort)	<i>ution Process for Anaphy</i> ntify drug-related anaph	nylaxis and validate the	7/1/11-3/30/12
Cancer Research Network Publication Support Preventing errors in the home care of chil Support the publication of a multisite stud cancer.	dren with cancer y of home medication e		5/1/11-4/30/12
\$12,000 (total) Role: PI (4.5% effort)	\$4,705 (indirects)	\$7,295 (directs)	
Picker/Gold Challenge Grant Home Medication Education and Support in Children Develop a pediatric residency curriculum \$25,000 (total) Role: PI (18% effort)	(HOMES): A Resident		8/1/10-7/31/11
Pending			
NIMH R01 Preventing Depression among Mothers of Develop a pediatric residency curriculum Role: Site PI (15% effort)	f Preterm Infants	rstein (PI) n errors in children.	4/1/12-3/31/17

Completed

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National Cancer Institute Supplement Increasing parent understanding of cancer Further develop, evaluate, and disseminat tool for parents of children with cancer.	r treatment: focusing or		9/1/10-8/31/11
\$215,000 (total) Role: PI on supplement project (13% effor	\$81,677(indirects) t)	\$ 133,323 (directs)	
Charles H. Hood Foundation Home medication errors in children with ca Investigate home medication errors in child using home visits and work with parents to \$150,000 (total) Role: PI (10% effort)	a <i>ncer</i> dren with cancer in Wo	to prevent errors.	1/1/9-9/30/11
CTSI Pilot funding Formative Research to Prepare to Assess Oncology Formative community based research usin assess parent-provider communication in t \$15,000 (total) Role: CoPI (1% effort)	Patient-Centered Com	develop measure to	1/1/11-3/31/11
Cancer Research Network Center Pilot Preventing errors in the home care of child This grant used parent Failure Modes and prevent home medication errors in children \$74,510 (Total) Role: PI (10% effort)	dren with cancer Effects Analysis to dev	lsh (PI) velop interventions to \$56,654 (directs)	4/1/9-3/31/10
Cancer Research Network Clinical Communication Research Center Pilot Improving Physician-Parent Communication Improve Adherence in Children The goal of this project was to improve pare medication use in children with cancer. \$51,554 (total) Role: PI (10% effort)	on to Reduce Home Me		1/1/9-12/31/10
HRSA Academic Administrative Units in Primary The grant developed a longitudinal curricu patient safety which was implemented in a \$856,357 (total) Role: Col (10% time)	Care lum devoted to quality i	ser (PI) improvement and	9/1/7-8/31/10
Robert Wood Johnson Foundation Physician Faculty Scholars Award Outpatient Medication Errors in Children w		lsh (PI)	7/2/7-9/30/10
This grant investigated outpatient and hom	ne medication errors in	children with cancer.	

This grant investigated outpatient and home medication errors in children with cancer, sickle cell disease, and epilepsy and proposed strategies to prevent home medication

errors in children with chronic disease \$299,957 (total) Role: PI (50% effort)	0 (indirects)	\$299,957 (directs)			
Meyers Primary Care Institute Pilot	Wals	sh (PI)	7/1/6-6/30/8		
Grant Errors in home prescription medication use Develop and pilot tested in-home direct observation methods to understand home medication errors in children.					
Total: \$17,950 Role: PI (No salary support)	Indirects: 0	Directs: \$17,950			
UMass Risk Management Pilot Grant	Walsh (PI)		7/1/6-6/30/7		
Medical Errors in Outpatient Pediatric	Oncology				
Study of errors in prescription writing i	n pediatric subspecialty	clinic.			
Total: \$18,800 Role: PI (10% salary support)	Indirects: 0	Directs: \$18,800			
NIH Loan Repayment Program	Walsh (PI)		8/01/4-7/31/7		
Pediatric Medication Errors Loan repayment for pediatric research in the area of medical error prevention and health information technology Role: Awardee					
National Library of MedicineWalsh (PI)Time series analysis studying the effect of computer order entry on pediatric inpatient medication errors			7/01/4-6/30/6		
Total: \$60,815 Role: PI (20% time)	Indirects: \$32,840	Directs:\$27,975			
Boston Medical Center Risk Management Trends in Pediatric Inpatient Medication E Study of new errors caused by compu		ics.	11/1/3-11/1/4		
\$20,000 Role: PI (no salary support)	Indirect: \$0	Directs: \$20,000			
Publications Peer-Reviewed Journals: Research Papers					
1 Kauchal D. Jaggi T. Walch K. Fartageus F.P. Patas D.W. Padiatria madiantian					

1. Kaushal R, Jaggi T, **Walsh K**, Fortescue EB, Bates DW. Pediatric medication errors: what do we know? What gaps remain? *Ambulatory Pediatrics* 2004;4(1):73–81.

2. **Walsh KE**, Miller M, Vinci RJ, Bauchner H. Resident education about medical errors. *Ambulatory Pediatrics* 2004;4(6):514-517.

3. **Walsh KE**, Adams WG, Vinci RJ, Chessare JB, Cooper MR, Hebert PH, Schainker EG, Bauchner H, Landrigan CP. Medication Errors Caused by Computer Order Entry, *Pediatrics* 2006;118(5):1872-1879.

4. Sard BE, **Walsh KE**, Doros G, Hannon M, Moschetti W, Bauchner H. A Retrospective Evaluation of a Computerized Physician Order Entry Adaptation to Prevent Prescribing Errors in a Pediatric Emergency Department. *Pediatrics* 2008; 1222: 782-787.

5. **Walsh KE**, Landrigan CP, Adams WG, Vinci RJ, Chessare JB, Cooper MR, Hebert PH, Schainker EG, Bauchner H. Medication Errors Caused by Computer Order Entry. *Pediatrics* 2008; 121(3): e4.

6. **Walsh KE**, Stille CJ, Mazor KM, and Gurwitz JH. Using home visits to understand medication errors in children. In: Henriksen K., Battles JB, Keyes MA, Grady ML, eds. <u>Advances in Patient Safety: New Directions and Alternative</u> <u>Approaches. Vol. 4: Technology and Medication Safety.</u> AHRQ Pub. No. 08-0034-4. Rockville, MD: Agency for Healthcare Research and Quality; 2008.

7. **Walsh KE**, Dodd KS, Seetharaman K, Roblin DW, Herrinton LJ, Von Worley A, Usmani GN, Baer D, Gurwitz JH. Medication Errors among Adults and Children with Cancer in the Outpatient Setting. *Journal of Clinical Oncology* 2009. 27: 891-896.

8. **Walsh KE**, Ettinger WH, and Klugman RA, Physician Quality Officer: A New Model for Engaging Physicians in Quality Improvement. *American Journal of Medical Quality* 2009; 24: 295-301.

9. Mazor KM, Goff SL, Dodd K, Venton S, **Walsh KE**. Parents Perceptions of Medication Errors. *Journal of Patient Safety* 2010. 6:102-107.

10. **Walsh KE**, Mazor KM, Stille C, Baril J, Moretti J, Chysna K, Stine C, Usmani N, Gurwitz JH. Outpatient and Home Medication Errors in Children with Chronic Conditions. *Archives of Disease in Childhood* 2011. 96: 581-586.

11. **Walsh KE**, Roblin DW, Weingart SN, Houlahan KE, Degar B, Billett A, Keuker C, Biggins C, Li J, Wasilewski K, Mazor KM. Medication Errors in the Home: A Multisite Study of Children with Cancer. Under submission

12. Bradley C, Walsh KE. Trends in Resident Education about Medical Errors. Under submission.

Peer-Reviewed Journals: Invited Reviews & Commentaries

1. **Walsh KE**, Kaushal R, Chessare J. How to avoid pediatric medication errors: A user's guide to the literature. *Archives of Disease in Childhood* 2005;90:698-702.

2. **Walsh KE**, Gurwitz JH. Abbreviations in medicine: Writing little and communicating less. *Arch Dis Child* 2008; 93: 816-817.

3. Walsh KE. Pediatric e-Prescribing: Good, Better, Best. Quality and Safety in

Health Care 2010. 19:262-3.

4. Picarillo, A, **Walsh KE**. Medical Education about Quality Improvement. In press. *Pediatric Annals*.

Non peer reviewed publications

1. Philipp BL, Walsh K, Merewood A. When breastfeeding is beset by stormy seas. *Contemporary Pediatrics* 2003;8(6):112.

2. Walsh K, Kelly C, Morrow A. Head Start: a setting for asthma outreach and prevention. *Family and Community Health* 1999; 22(1): 28-37

Presentations and Abstracts

Invited Presentations

Regional and National Venues

ŀ	Regional and National Venues	
	Walsh KE . Preventing Medical Errors in Children: Focusing on Homes. Society of Clinical Research Associates <u>Invited Plenary</u> <u>Speaker</u> , Las Vegas, Nevada, September, 2012.	9/2012
	Walsh KE . Preventing Errors in Pediatric Medication Use: Hospitals to Homes. Boston University Medical School Pediatric <u>Grand</u> <u>Rounds</u> .	3/2011
	Rabin B, Lindberg N; Smelser D, Walsh K , Mink P, Adams K Fletcher R, Innovations in the Acquisition of CRN/HMORN Data. Concurrent Session. 2011 HMO Research Network Meeting, Boston, Massachusetts.	3/2011
	Walsh K , Smelser D, Lindburg N, Fletcher R. Collaborative Research Across Disciplines and Place. <u>Concurrent Session</u> . 2010 HMO Research Network Meeting, Austin, Texas.	3/2010
	Walsh KE . Home Medication Errors in Children with Chronic Disease. Invited Platform: <u>Young Investigator Plenary</u> . 2009 HMO Research Network Meeting, Danville, Pennsylvania.	5/2009
	Walsh KE . Preventing Medication Errors: Rebuilding America's Healthcare System, Tufts University School of Medicine Grand Rounds.	4/2008

Walsh KE. Medical errors and Pediatric Order Entry. Invitedpresentation at National Library of MedicineBoard of Regents5/2006Meeting, Bethesda, MD.

Walsh KE, Chessare JB. Getting in Action to Make the Medication Delivery System Safer for Children. Half-Day Exploratorium at the 5th Annual Forum for Improving Children's Health Care, Orlando, FI.

Walsh KE. Pediatric Medication Errors: A Challenge for the Twenty-First Century. Invited Speech at 2004 Pediatric Travel Club 10/2004 Conference, Boston, MA.

Local and Institutional Venues

Walsh KE : A Practical Approach to Prevention Pediatric Medication Errors: Focusing on HoMeS. University of Massachusetts Pediatric Grand Rounds.	2/2011			
Walsh KE . Simple Solutions to the Complicated Problem of Outpatient Medication Use, University of Massachusetts Grand Rounds.	1/2008			
Walsh KE , Miyamoto SD, Vaz R. The development of a pediatric advocacy curriculum. Grand rounds presentation at Rhode Island Hospital, May 2000.	5/2000			
National and International Meetings				
Walsh KE, Jee S, Stille C. Turning Your Quality Improvement Project into Publishable Research. Workshop presentation at 2011 Pediatric Academic Societies Meeting, Denver, Colorado.	4/2011			
Jee S, Walsh KE , Martin B. The work-life juggling act: Keeping your eye on the balls that really count. Workshop presentation at 2011 Pediatric Academic Societies Meeting, Denver, Colorado.	4/2011			
Bradley C, Walsh KE. Residents Receive More Training About Errors, But Rarely Learn from Mistakes in Practice, Poster presentation at 2011 Pediatric Academic Societies Meeting, Denver, Colorado.	4/2011			
Wagner J, Walsh KE , Moretti J, Field TS, Mazor KM. A Parent Failure Modes and Effect Analysis: Parent Teams Can Identify Problems and Develop Interventions with Little Support. Poster presentation at 2011 Pediatric Academic Societies Meeting, Denver, Colorado.	4/2011			
Walsh KE , Keuker C, Biggins C, Fischer S, Christiansen S, Woolley T, Mazor K. Help for Parents of Children with Cancer: a Web-based Intervention. Platform Presentation at 2011 HMO Research Network Meeting, Boston, MA.	3/2011			
Wagner JL, Walsh KE, Moretti J, Field TS, Donovan JL, Kanaan AO, Mazor KM. A Parent Failure Modes and Effect Analysis: Parent Teams Can Identify Problems and Develop Interventions with Little Support. Platform Presentation at 2011 HMO Research Network Meeting, Boston, MA	3/2011			
Walsh KE, Stille CJ, Mazor KM, Miller MR, Chysna K, Gurwitz JH.	11/2010			

Using Home Visits to Understand Medication Errors in Children. <u>Platform</u> presentation at 2008 2nd National Ambulatory Primary Care Research and Education Conference Patient Safety and HIT.

Walsh KE. Outpatient Medication Errors in Children with Chronic 5/2010 Conditions. <u>Platform</u>: 2010 Pediatric Academic Societies Meeting, Vancouver, Canada.

Walsh KE. Outpatient Medication Errors in Children with Chronic3/2010Conditions. Platform: 2010 HMO Research Network Meeting,Austin, Texas.

Adams WG, Phillips B, George M, Watson B, **Walsh KE**, Anand S, 10/2008 Lozinski M, Paasche-Orlow M, Shanahan C. Personal Health Partner: Conversational IT for Better, Safer Pediatric Primary Care. <u>Poster</u> Presentation at American Medical Informatics Association Meeting, Washington DC.

Walsh KE, Dodd K, Seetharaman K, Stille CJ, Usmani N, Gurwitz 5/2008 JH. Medication errors in outpatient oncology care. <u>Platform</u> presentation at 2008 Pediatric Academic Societies Meeting, Honolulu, Hawaii.

Walsh KE, Dodd K, Seetharaman K, Stille CJ, Usmani N, Gurwitz4/2008JH. Medication errors in outpatient oncology care.Platformpresentation at 2008 HMO Research Network Meeting,Minneapolis, Minnesota.

Walsh KE, Landrigan CP, Vinci RJ, Chessare JB, Bauchner H,
Adams WG. Pediatric medication error rates not reduced with
computer order entry: an evaluation of one computer system,
Platform presentation at 2006 Pediatric Academic Societies
Meeting, San Francisco, CA.5/2006

Walsh KE, Ash AS, Fonda JR, Williams TV. Healthcare cost and 6/2005 patterns of illness in military dependants: identifying children at risk, Poster presentation at 2005 Child Academy Health Meeting, Boston.

5/2005

Walsh KE, Adams WG, Vinci RJ, Chessare JB, Bauchner H, Landrigan CP. Medication Errors Caused by Computer Order Entry, Platform presentation at 2005 Pediatric Academic Societies Meeting, Washington DC.

Walsh K, Kelly C, Morrow A, Pickering L. Asthma in school aged Spring 1998 children: the parents' perspective. American Academy of Pediatrics

National Meeting.

Walsh K , Kelly C, Morrow A, Pickering L. Asthma in school aged children: the parents' perspective. Asthma, Allergy, and Immunology Meeting.	Spring 1997				
Committee Assignments and Major Administrative Services					
UMass Memorial Health Care, Worcester, MA Medication Safety Committee	2007-2009				
Critical Care Oversight Committee	2007-2009				
UMass Children's Medical Center Chair, Scientific Oversight Committee for NICU Fellows Member, Department Chair's Cabinet Chair, Primary Care Satisfaction Task Force Quality and Safety Task Force Chair, PICU Failure Modes and Effects Analysis	2010-present 2010-present 2008 2007				
Boston Medical Center Medication Safety Committee	2003-2005				
Rhode Island Hospital Pediatric Curriculum Committee Pediatric Advocacy Committee Medical Records Committee Pediatric Resident Advocacy Network Co Chair	2000-2002 2001-2002 2001-2002 1999-2002				