

CURRICULUM VITAE

A. IDENTIFYING DATA

Name: Paul H. Wise, MD, MPH
Citizenship: U.S.
California Medical License: G87321

B. ACADEMIC HISTORY:

1974	Latin American Studies	A.B.	Cornell University
1978	Medicine	M.D.	Cornell University Medical College
1978	General Studies	M.P.H.	Harvard School of Public Health

Scholarships and Educational Honors:

1974	A.B. awarded <i>summa cum laude</i> , distinction in all subjects, Dean's List, Cornell University
1976	Fellow, New York Lung Association
1978	Charles L. Horn Prize for Leadership in Medicine, Cornell University Medical College
1981	Sidney Farber House Officer Award, Children's Hospital Medical Center, Boston

Post-doctoral and Residency Training:

1978-1979	Internship in Pediatrics, Children's Hospital Medical Center, Boston, MA
1979-1980	Junior Assistant Resident in Pediatrics, Children's Hospital Medical Center, Boston, MA
1980-1981	Senior Assistant Resident in Pediatrics, Children's Hospital Medical Center, Boston, MA

Licensure and certifications:

1981	Massachusetts License Registration
1983	American Board of Pediatrics, Certificate
2004	California License Registration

Research Interest:

International child health policy; social disparities and technologic innovation in child health.

Current Research Support:

- 10/05-9/2014 “Child Health Policy in California”
Principal Investigator
Analysis of patterns of health care utilization for children with chronic illness in California and directions for ameliorative policy
Funder: California Health Care Foundation
- 4/2013-12/2014 “Creating an Evidence Base for Reforming the California Children’s Services”
Principal Investigator
Analysis of patterns of health care utilization and expenditures of neonates and children in California to guide the reform the CCS program.
Funder: California Health Care Foundation
- 9/2009-10/2014 “Toward a Framework for Policy Analysis of Microbiome Research”
Co-Investigator
Analyses of gene-environment microbiomic interaction of likely relevance to child health policy
Funder: NHGRI, NIH
- 3/2010-2/2015 “Center for Integration of Research on Genetics and Ethics
Co-Investigator
Multidisciplinary program on ethical implications of gene-environment interactions
Funder: NHGRI, NIH
- 9/2010-4/2017 “Clinic, Family & Community Collaboration to Treat Overweight and Obese Children”
Co-Investigator
Integrated study of obesity prevention and treatment strategies
Funder: NIH
- 9/2012-9/2014 “Emergency Department-Related Quality Measurement”
Co-Investigator
Development and testing of quality metrics in emergency care
Funder: AHRQ
- 1/2011-12/2016 “Center for Prematurity Research”
Co-Principal Investigator
Transdisciplinary program to reduce premature birth
Funder: March of Dimes
- 10/09-12/2014 “Governance and Global Child Health”
Principal Investigator
Effort to address major threats to child rights and well-being internationally through multidisciplinary research
Funder: Stanford University International Initiative

C. EMPLOYMENT HISTORY

Academic Appointments

1978-1981	Clinical Fellow in Pediatrics, Harvard Medical School
1981-1986	Instructor in Pediatrics, Harvard Medical School
1983-1992	Senior Fellow, Division of Health Policy Research and Education
1986-1996	Assistant Professor, Pediatrics, Harvard Medical School
1987-1996	Assistant Professor, Department of Maternal and Child Health, Harvard School of Public Health
1992-1996	Director, Harvard Institute for Reproductive and Child Health, Harvard Medical School
1996-2004	Lecturer, Department of Pediatrics Harvard Medical School
1996-2000	Associate Professor, Department of Pediatrics Boston University School of Medicine
2000-2004	Professor, Department of Pediatrics Boston University School of Medicine
2002-2004	Professor, Department of Maternal and Child Health Boston University School of Public Health
2003-2004	Visiting Professor, Department of Medicine Harvard Medical School
7/1/04-present	Core Faculty Center for Health Policy, Freeman-Spogli Institute for International Studies Stanford University
7/1/04-present	Core Faculty Center for Primary Care and Outcomes Research, Department of Medicine, Stanford University School of Medicine
7/1/04-10/1/2014	Director Center for Policy Outcomes and Prevention Department of Pediatrics Stanford University School of Medicine
7/1/04-present	Professor, Department of Pediatrics Stanford University School of Medicine

6/1/05-present	Richard E. Behrman Professor of Child Health and Society Stanford University
10/1/06-present	Professor (by courtesy), Department of Health Research and Policy Stanford University School of Medicine
10/1/09-present	Senior Fellow, Freeman-Spogli Institute for International Studies Stanford University
10/1/2012-present	Co-Director, March of Dimes Center for Prematurity Research at Stanford

Hospital Appointments

1980-1981	Acting Medical Director, Emergency Services, Children's Hospital, Boston, MA
1981-1984	Co-Director, Longwood Area Trauma Center, Boston, MA
1981-1984	Director, Emergency and Primary Care Services, Children's Hospital, Boston, MA
1981-1987	Assistant in Medicine, Children's Hospital, Boston, MA
1984-1987	Director of Perinatal Epidemiology, Joint Program in Neonatology, Brigham and Women's Hospital, Boston, MA
1987-2004	Associate in Medicine, Children's Hospital, Boston, MA
1992-1996	Director, Harvard Institute for Reproductive and Child Health, Harvard Medical School, Boston, MA
1996-2004	Director, Social and Health Policy Research Department of Pediatrics Boston Medical Center
2003-2004	Vice-Chief, Division of Social Medicine and Health Inequalities Department of Medicine Brigham and Women's Hospital
7/1/04-present	Medical Staff, Lucile Packard Children's Hospital at Stanford

Other Academic Positions and Major Visiting Appointments:

1971	Research Fellow, Institute of Nutrition of Central America and Panama, Guatemala City, Guatemala
1974-1977	Coordinator, Cornell-Hanover Young Child Nutrition Program, Jamaica, West Indies
1990-1991	Special Expert, Pediatric, Adolescent, and Maternal AIDS Branch, NICHD, National Institutes of Health
1990-1991	Special Assistant to the Surgeon General, U.S. Public Health Service

1999	Visiting Professor, Department of Pediatrics, University of Cape Town, South Africa
1999	Visiting Professor, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala, India
2002-present	Faculty Director, Health Promoter Program, San Lucas Toliman, Guatemala

D. PUBLIC and PROFESSIONAL SERVICE

Major Professional Service:

1990-1992	American College of Obstetricians & Gynecologists, National Fetal and Infant Mortality Review Program, Technical Consultant
1993-1997	Vital Statistics Liaison Committee, American Academy of Pediatrics
1993-1997	National Committee on Vital and Health Statistics, American Academy of Pediatrics
2001-2003	Consortium on Health Disparities, American Academy of Pediatrics
2001-2006	Chair, Steering Committee, Global Network for Women's and Children's Health Research, National Institute of Child Health and Human Development, NIH
2003-2004	Health Services Working Group, National Children's Study, NICHD, NIH
2003-2004	Special Consultant, National Children's Study, NICHD, NIH
2005- 2010	Member, International Scientific Oversight Committee, Health Effects Institute
2006-8	Special Consultant, Residency Review and Redesign Initiative, American Board of Pediatrics
2007-2010	Member, Secretary's Advisory Committee on Genetics, Health, and Society NIH, DHHS Chair, Strategic Priorities Task Force
2011	Scientific Vision Initiative National Institute of Child Health and Human Development, NIH Co-Chair, Pregnancy Working Group
2011-2012	Chair, Data Monitoring and Safety Board Community Child Health Network National Institute of Child Health and Human Development, NIH
2012-present	National Advisory Child Health and Human Development Council, NICHD, NIH
2012	Trans-NIH Health Disparities Strategic Planning Working Group, NIH
2012-present	March of Dimes Public Policy Advisory Council

2013-present Advisory Board, Child and Adolescent Health Measurement Initiative

Editorial Boards:

2002-4 Editorial Board, About Children: An Authoritative Resource on the State of Childhood Today. Elk Grove Village, IL: American Academy of Pediatrics. 2004

2006-12 Editorial Board, Academic Pediatrics

National and Regional Committees:

1978-1980 Seminar Board on Community Epidemiology
Harvard University School of Public Health

1980-1986 Member, Advisory Council, Statewide, Childhood Injury Prevention Program,
Massachusetts Department of Public Health

1980-1984 Member, Brookline Emergency Medical Services Review Committee

1983 Family Health Services Advisory Council, Preventive Strategies Committee,
Massachusetts, Department of Public Health

1984 New England Commission on Hunger

1985-1987 Physician's Task Force on Hunger

1985-1987 The Medical Foundation/Boston Foundation,
Infant Mortality Reduction Project

1986-1989 Massachusetts Department of Public Health,
Coalition to Reduce Infant Mortality

1987-1994 Physician's for Human Rights, Board of Directors

1989 National Commission on Infant Mortality, Data and Methods Subcommittee

1989 Task Force on Infant Mortality and Low Birth weight,
Commonwealth of Massachusetts

1989 Maternal and Child Health Advisory Committee,
Department of Health and Hospitals, City of Boston

1990 Mayor's Task Force on Infant Mortality, District of Columbia

1992-1998 Massachusetts Commission on Children and Youth, Board of Directors

1992-1998 Cambridge Health of the City Project, Healthy Child Task Force,
Chairman, Child Health Data Base Action Group

1994-1998 Massachusetts Chapter of the March of Dimes, Birth Defects Foundation,
Board of Directors

1996-2000	Steering Committee, Initiative for Children, American Academy of Arts and Sciences
1998-2001	National Research Council, Institute of Medicine, Board on Children, Youth, and Families
2002-2004	Perinatal Health Group, Preventive Health Task Force, Centers for Disease Control
2005-2009	Advisory Committee, First Five Coalition, Los Angeles County
2012-2013	Science Advisory Committee, Health Measurement Network National Children's Study, National Institutes of Health

Harvard Medical School:

1983-1988	Working Group on Early Life and Adolescent Health Policy Committee on Infant Mortality
1988-1995	Executive Director, Working Group on Early Life and Adolescent Health Policy
1990-1996	Steering Committee, Women's and Children's Health Clerkship
1993	Oliver Wendell Holmes Society Working Committee on Multiculturalism

Children's Hospital:

1981-1984	Disaster Committee
1981-1984	Residency Training Committee
1982-1984	Ambulatory Care Administrative Committee
1982-1984	Acute Care Committee
1982-1984	Referring Physician Committee
1983-1988	Secretary, Medical Staff

Brigham and Women's Hospital:

1985-1990	Perinatal Mortality Committee
2003-2004	Hiatt Global Health Equity Residency Committee

Boston University School of Medicine:

2001-2004	Promotions Committee, Department of Pediatrics
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Lucile Packard Children's Hospital:

2004-present Committee on Public Policy and Community Service
2004-present Advisory Committee, Child Health Research Program

Stanford University School of Medicine

2005-8 Steering Committee, International Initiative
2005-8 Pediatrics Research Council
2005-8 Pediatric Research Program, Steering Committee
2005-9 Chair, Advisory Committee, Office of Community Health
2009-present Advisory Committee, Office of Community Health
2011-present Executive Committee, Child Health Research Institute

Stanford University

2005-8 Advisory Committee, International Initiative
2005-present Affiliated Faculty, Stanford Center on Longevity
2006-8 Chair, Working Group on Human Well-being, International Initiative
2006-present Advisory Board, Center for Latin American Studies
2006-present Core Faculty, The Center for Integration of Research on Genetics and Ethics
2009-present Faculty, Center for African Studies
2009-2012 Member, University Senate
2010-2013 Faculty Advisory Committee, Haas Center for Public Service
2010-present Faculty, Center for Democracy, Development and the Rule of Law, Freeman-Spogli Institute for International Studies
2010-present Faculty, Center for International Security and Cooperation, Freeman- Spogli Institute for International Studies

E. POST-DEGREE HONORS and AWARDS**Honors and Distinctions:**

1984 Fellow, Massachusetts Health Research Institute, The Medical Foundation, Inc., Boston

1988	Young Professional Award, American Public Health Association
1991	Certificate of Appreciation, Office of the Surgeon General, Department of Health and Human Services
1995	Franklin Delano Roosevelt Award, The March of Dimes,
2001	Richard and Millie Brock Award for Contributions to Pediatrics, New York Academy of Medicine
2002	Anne E. Dyson Memorial Award Visiting Professor, Department of Pediatrics, University Rochester School of Medicine
2003	William Root Lecturer and AOA Visiting Professor, Kansas University School of Medicine
2006	Susan Packard Orr Lecturer, Lucile Packard Children's Hospital
2005	Hugh and Alison Westgate Award in Justice and International Pediatrics, Minnesota Children's Hospital
2006	George A. Silver Memorial Lecture, George Washington University School of Medicine
2008	James W. Rosenfeld Memorial Lecture, Department of Pediatrics, Oregon Health Sciences University
2009	Christus Distinguished Lecturer in Public Health, Christus Santa Rosa Health Care, San Antonio, Texas
2009	Certificate of Appreciation, National Institute of Child Health and Human Development, NIH
2010	Dorothy Waffarn Memorial Endowed Lecture, Department of Pediatrics, University of California, Irvine
2010	Martin Luther King/Lavizzo Lecture, Department of Pediatrics, University of Washington School of Medicine
2010	Keynote, Zimbabwe Medical Association Annual Congress
2011	Keynote, Humanism in Medicine Conference, Koo Foundation Sun Yat-Sen Cancer Center, Taipei Taiwan
2012	David E. Shi Endowed Lecture, Furman University
2013	Paul Harper Lecture, Johns Hopkins Bloomberg School of Public Health
2013	Alan D. Stiles Lecture, Department of Pediatrics, University of North Carolina School of Medicine

Professional Societies:

1985-present	American Academy of Pediatrics
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1983-present	American Public Health Association
1983-present	Academic Pediatrics Association
1987-2004	Massachusetts Public Health Association
1991-present	Physicians for Human Rights

Teaching Experience:

1981-1984	Director, Emergency Pediatrics Rotation Children's Hospital, Boston,
1982-1984	Advanced Cardiac Life Support Program Brigham and Women's Hospital, Boston, Instructor
1982-1996	Ward Attending, Children's Hospital, Boston
1983-2001	"Maternal and Child Health Care Delivery" Harvard School of Public Health, Lecturer
1984-1995	"Measuring the Health of Urban Populations" Harvard School of Public Health, Co-Director
1987-1994	"The Doctor-Patient Relationship" Harvard Medical School, Tutorial Leader
1990-1996	"Women's and Children's Health Policy Clerkship" Harvard Medical School, Steering Committee
1993-2004	"Women's and Children's Health Policy Clerkship" Harvard Medical School, Core Lecturer
1994-1996	"Society and the Determinants of Child Health" Harvard School of Public Health, Director
1996-2004	Boston Medical Center, Ward Attending
1996-2004	Director, "Policy Rounds", Boston Combined Residency in Pediatrics
1999-2003	Director, Latino Clinic, Boston Combined Residency in Pediatrics
2000-2004	Social Epidemiology Research Group, Director Department of Pediatrics, Boston University School of Medicine
2002-2004	Director, Health Policy Block, Boston Combined Residency in Pediatrics
2003-2004	Co-Director, Residency in Global Health Equity Department of Medicine

	Brigham and Women's Hospital
2004-6	Director, "Policy Rounds", Residency in Pediatrics Lucile Packard Children's Hospital
2004-8	Chair, Advisory Board Scholarly Concentration in Community Health
2004-8	Advisory Committee, Residency Training Program Lucile Packard Children's Hospital
2006-7	Chair, Subcommittee on International and Advocacy Programs Residency Training Program Lucile Packard Children's Hospital
2006-9	Course Director, "Rethinking International Health" (MED 230) Stanford University School of Medicine
2007-present	Course Director, "International Public Health" (HUMBIO 129s) Stanford University
2007-present	Advisor, Human Biology Program, Stanford University

F. BIBLIOGRAPHY: 175 Total Publications

Peer-Reviewed Articles:

1. Alderman MH, **Wise P**, Ferguson R, LaVerde J. Reduction of young child malnutrition and mortality in rural Jamaica. *J Trop Ped Environ Child Health* 1978;7:241-8.
2. **Wise P**, Krauss AK, Waldman S, Auld P. Flow volume curves in premature infants with hyaline membrane disease. *Crit Care Med* 1980;62:156-62.
3. Hanson, M, **Wise, PH**, Robbins, DA. Triage in emergency services. *J Emergency Nursing*. 1981;7(3): 118-119.
4. Lamb GA, **Wise PH**, Gold B, Colton T. Dashevsky B, The impact of economic hardship on children's health: the recent experience of Boston. *Mass J Comm Health* 1985;2:15.
5. **Wise PH**, Kotelchuck M, Wilson M, Mills M. Racial and socio-economic disparities in childhood mortality in Boston. *New Eng J Med* 1985;313:360-6.
6. Baker MD, Moore S, **Wise PH**. The effect of bottle bill legislation on the incidence of childhood lacerations. *Am J Pub Health* 1986;76:1243-4.
7. **Wise PH**, First LR, Lamb GA, et. al. An increase in infant mortality despite high access to tertiary care: an evolving relationship between infant mortality, health care, and socioeconomic change. *Pediatrics* 1988;81:542-8.
8. Himmelstein DU, Woolhandler S, **Wise PH**. A national health program for the U.S.: a physician's proposal. *New Eng J Med* 1989;320:102-8.

9. VanMarter LJ, Berwick DM, Torday J, Frigoletto F, **Wise PH**, Epstein, MF. Interpretation of indices of fetal pulmonary maturity by gestational age. *Paediatr Perinat Epidemiol* 1988;2(4):360-364.
10. **Wise PH**. Poverty, technology, and recent trends in the U.S. infant mortality rate. *Paediat Perin Epidemiol* 1990;4:390-401.
11. **Wise PH**, Schaller JG, Bloche G, Arnison ND. Operation "Just Cause": a case study in death estimation after war. *PSR Quart* 1991;1:138-144.
12. Kempe A, **Wise PH**, Barkan SE, et. al. Clinical determinants of the racial disparity in very low birth weight birth. *N Engl J Med* 1992;327:969-73.
13. **Wise PH**, Lowe JA. Noise or fugue: seeking the logic of child health indicators. *Mental Retardation* 1992;30(6):323-29
14. **Wise PH**. Confronting racial disparities in infant mortality: reconciling science and politics. *Am J Prev Med* 1993;9(6):7-16.
15. Perrin JM, Kahn RS, Bloom SR, Davidson S, Guyer B, Hollinshead W, Richmond JB, Walker DK, **Wise PH**. Health care reform and the special needs of children. *Pediatrics* 1993; 93(3):504-506.
16. Breitbart V, Chavkin W, **Wise PH**. Model programs addressing perinatal drug exposure and human immunodeficiency virus infection. *Bull NY Acad Med* 1994;71:236-51.
17. Breitbart V, Chavkin W, **Wise PH**. The accessibility of drug treatment for pregnant women: a survey of programs in five cities. *Am J Public Health* 1994;84(10):1658-1661.
18. Wallace HM, Micik S, **Wise P**. Community study of infant mortality in San Diego County. *J Trop Ped.* 1994;40:172-8.
19. Chavkin W, Breitbart V, **Wise PH**. Finding common ground: the necessity of an integrated agenda for women's and children's health. *J Law Med Ethics* 1994;22(3)262-269.
20. Katz ME, Holmes MD, Power KL, **Wise PH**. Mortality of women 15 to 44 years old in Boston: looking beyond reproductive status. *Am J Public Health* 1995;85(8):1135-1138.
21. Sachs BP, Fretts RC, Gardner R, Hellerstein S, Wampler NS, **Wise PH**. The impact of extreme prematurity and congenital anomalies on the interpretation of international comparisons of infant mortality. *Obstet Gynecol* 1995;85(6):941-946.
22. **Wise PH**, Wampler N, Barfield W. The importance of extreme prematurity and low birthweight to US neonatal mortality patterns: implications for prenatal care and women's health. *JAMWA* 1995;50:152-155.
23. Chavkin W, Breitbart V, **Wise PH**. Efforts to reduce perinatal mortality, HIV, and drug addiction:survey of the states. *JAMWA*.1995;50:164-6.
24. **Wise PH**. Child beauty, child rights and the devaluation of women. *Health and Human Rights*.1995;1(4):101-105.
25. Barfield WD, **Wise PH**, Rust FP, Rust KJ, Gould JB, Gortmaker SL. Racial disparities in outcomes: California military and civilian births. *Arch Pediatr Adolesc Med* 1996;150:1062-7.

26. Hamvas A, **Wise PH**, Yang RK, Wampler NS, et al. The influence of the wider use of surfactant therapy on neonatal mortality among blacks and whites. *New Engl J Med* 1996;334:1635-40.
27. Kempe A, **Wise PH**, Wampler NS, Cole FS, Wallace H, Dickenson C, Rhinehart H, Lezotte DC, Beatty B. Risk status at discharge; etiology of death for postneonatal infant deaths: a total population study. *Pediatrics*. 1997; 99:338-44.
28. Sharfstein J, **Wise PH**. Hepatitis B vaccination practices in a community health center. *JNational Med Assoc*. 1997;89:86-92.
29. Kempe A, Sachs BP, **Wise PH**. The public health impact of home uterine activity monitoring on very low birth weight. *Pub Health Rep* 1997;112(5):433-9.
30. Goldstein R, Wampler N, and **Wise PH**. War experience and distress symptoms of Bosnian children. *Pediatrics* 1997; 100:873-8.
31. Mandl KD, Brennan TA, **Wise PH**. Maternal and infant health:effects of moderate reductions in postpartum length of stay. *Arch of Pediatr Adolesc Med*. 1997; 151:915-21.
32. McElrath T and **Wise PH**. The contribution of fertility therapy to very low birth weight. *J Obstet Gynecol*. 1997; 90:600-5.
33. Becker M, **Wise PH**, Palfrey JS. Evaluation of a program to improve the transition from birth hospital to primary care. *Amb Child Health*. 1997;2:110-15.
34. Chavkin W, Elman D and **Wise PH**. Mandatory testing of pregnant women and newborns: HIV, drug use and welfare policy. *Ford Urban Law J*.1997;XXIV:749-56.
35. Gortmaker S, **Wise PH**. The first injustice: socioeconomic disparities, health services technology, and infant mortality. *Annu Rev Sociol*. 1997;23: 147-70.
36. Chavkin W, Breitbart V, **Wise PH**. National survey of the states: policies and practices regarding drug using women. *Am J Public Health*. 1998; 88:117-9.
37. Kahn RS, **Wise PH**, Finkelstein JA, Bernstein HH, Lowe JA, Homer CJ. The scope of unmet maternal health needs in pediatric settings. *Pediatrics*. 103(3):576-81, 1999
38. **Wise PH**, Chavkin W, Romero D. Assessing the effects of welfare reform policies on reproductive and infant health. *Am J Public Health* 1999;89(10):1514-21.
39. Baltay M, McCormick MC, **Wise PH**. Implementation of fetal and infant mortality review: experience from the national Healthy Start Program. *J Mat Child Health*. 1999;3:141-9.
40. Erickson LC, **Wise PH**, Cook EF, Beiser A, Newburger JW. The impact of managed care insurance on utilization of lower-mortality hospitals by children undergoing cardiac surgery in California. *Pediatrics*. 2000;105:1271-8.
41. Chavkin W, Romero D, **Wise PH**. State welfare reform policies and declines in health insurance. *Am J Public Health*. 2000;90:900-8.
42. Smith LA, **Wise PH**, Chavkin W, Romero D, Zuckerman B. Implications of welfare reform for child health: emerging challenges for clinical practice and policy. *Pediatrics*. 2000; 106: 1117-25.

43. Kahn RS, **Wise PH**, Kennedy BP, Kawachi I. State income inequality, household income, and maternal mental and physical health: cross sectional national survey. *BMJ*. 2000;321:1311-5.
44. Romero D, Chavkin W, **Wise PH**. The impact of welfare reform on child protective services: a national survey. *J Soc Issues*. 2000;56:799-810.
45. Wang X, Zuckerman B, Kaufman G, **Wise P**, Hill M, Niu T, Ryan L, Wu D, Xu X. Molecular epidemiology of preterm delivery: methodology and challenges. *Paediatr and Perinatal Epidem*. 2001;15:63-77.
46. Smith LA, **Wise PH**, Villarta M, Zuckerman B. The impact of welfare reform on children with chronic illness. *Am J Public Health*. 2002;92:228-30.
47. Romero D, Chavkin W, **Wise PH**. State welfare reform policies and maternal and child health services: findings from a national study. *Mat Child Health J*. 2001;5:199-206.
48. Kasper J, **Wise PH**. Child rights and welfare reform. *Health Human Rights*. 2002;5:126-35
49. Kahn RS, **Wise PH**, Bauchner H, Zuckerman B. Women's health after pregnancy and child outcomes at age 3 years: a prospective cohort study. *Am J Public Health* 2002; 92: 1312-1318.
50. Wang XB, Pearson C, Kaufman G, Bauchner H, **Wise PH**, Zuckerman B, Pu X. Maternal smoking, genetic polymorphisms and birth weight. *JAMA*. 2002;287:195-202.
51. Wood PR, Smith LA, Romero DR, Bradshaw P, Chavkin W, **Wise PH**. Relationships between welfare status, health insurance status, and health and medical care among children with asthma. *Am J Public Health* 2002; 92:1446-1452.
52. Smith LA, Romero DR, Wood PR, Wampler N, Chavkin W, **Wise PH**. Employment barriers among welfare recipients and applicants with chronically ill children. *Am J Public Health* 2002; 92: 1453-1457.
53. **Wise PH**, Wampler N, Romero DR, Chavkin W. Chronic illness among poor children enrolled in the Temporary Assistance for Needy Families (TANF) program. *Am J Public Health* 2002; 92: 1458-61.
54. Romero DR, Chavkin W, **Wise PH**, Smith LA, Wood PR. Welfare to work? Impact of maternal health on employment. *Am J Public Health* 2002; 92: 1462-1468.
55. Romero D, Chavkin W, **Wise PH**, Smith LA. Low-income mothers' experience with poor health, hardship, work, and violence: implications for policy. *Viol Ag Women*. 2003;9:1231-44.
56. Venkateswarlu D, Kasper J, Mathews R, Reis C, Iacopino V, **Wise PH**. Child labour in India: a health and human rights perspective. *Lancet*.2003;362(s):1-3.
57. **Wise PH**. The transformation of child health in the United States. *Health Affairs*. 2004; 23:9-25.
58. Kahn R, Wilson K, **Wise PH**. Intergenerational health disparities. *Pub Health Rep*. 2005;120:399-408.
59. Geltman PL, Grant-Knight W, Supriya MD, Lloyd-Travaglini C, Lustig S, Landgraf JM, **Wise PH**. The lost boys of Sudan: functional and behavioral health of unaccompanied refugee minors resettled in the United States. *Arch Pediatr Adolesc Med*. 2005;159:585-91.

60. Bravata DM, Wang E, Holty J-E, Lewis R, **Wise PH**, Nayak S, Liu H, McDonald KM, Owens DK. Pediatric Anthrax: Implications for bioterrorism preparedness. *Evid Rep Technol Assess.* 2006; 141: 1-48
61. Fleegler E, Lieu T, **Wise PH**, Muret-Wagstaff S. Families' health-related social problems and missed referral opportunities. *Pediatrics.* 2007;119:e1332-e1341.
62. Wang NE, Chan J, Mahlow P, **Wise PH**. Trauma center utilization for children in California 1998-2004: Trends and areas for further analysis. *Acad Emerg Med.* 2007; 14(4):309-15.
63. Rosenbaum S, **Wise PH**. Crossing the Medicaid-private insurance divide: the case of EPSDT. *Health Aff.* 2007;26:382-93.
64. **Wise PH**. The future pediatrician: the challenge of chronic disease. *J Peds.* 2007; 151(5 Suppl):S6-10.
65. Javier J, **Wise PH**, Mendoza F. The Relationship of immigrant status with access, utilization, and health status for children with asthma. *Amb Peds.*2007;7:421-430.
66. Barfield W, Clements KM, Lee KG, Kotelchuck M, Wilbur N, **Wise PH**, et al. Using linked data to assess patterns of early intervention referral among very low birth weight infants. *Mat Child Health J.* 2008;1: 24-33.
67. Bravata DM, Wang E, Holty J-E, Lewis R, **Wise PH**, Nayak S, Liu H, McDonald KM, Owens DK. Inhalational, gastrointestinal, and cutaneous anthrax in children: a systematic review of cases: 1900 to 2005. *Arch Ped Adol Med* 2007; 161(9):896-905.
68. Marin H, Torres R, **Wise PH**. The effect of Medicaid managed care on prenatal care: the case of Puerto Rico. *Mat Child Health J.* 2009; 13:187-97.
69. Wang NE, Saynina O, Kuntz-Duriseti K, Mahlow P, **Wise PH**. Variability in pediatric utilization of trauma facilities in California: 1999-2005. *Ann Emerg Med.* 2008; 52: 607-15.
70. Bravata DM, Gienger AL, Holty JEC, Sundaram V, Khazeni N, **Wise PH**, et.al. Quality improvement strategies for children with asthma: A systematic review. *Arch Ped Adol Med.* (In Press)
71. **Wise PH**. Transforming preconceptional, prenatal, and interconceptional care into a comprehensive commitment to women's health. *Wom Health Iss.* 2008; 18s: 13-8.
72. Liu YI, **Wise PH**, Butte AJ. A computed human disease "etiome". *BMC Bioinformatics.* 2009; 5;10 Suppl 2:S14
73. **Wise PH**. Confronting social disparities in child health: a critical appraisal of life-course science and research. *Pediatrics.* 2009;124:S203-11.
74. Hsia RY, Torres H, Wang NE, Saynina O, **Wise PH**. Increasing trauma center utilization and disparities in access: Data from California, 1999-2006. *J Trauma.* 2010;68:217-24.
75. Javier JR, Mendoza F, **Wise PH**. Children with special health care needs: How immigrant status is related to health care access, health care utilization, and health. *Mat Child Health J.* 2010;14:567-79.
76. **Wise PH**. Neonatal health care policy: promise and perils of reform. *Neo Rev.* 2010:e12-17.

77. Huffman LC, Brat GA, Chamberlain LJ, **Wise PH**. Impact of managed care on publicly insured children with special health care needs. *Acad Pediatr*. 2010;10:48-55.
78. Chamberlain LJ, Chan J, Mahlow P, Huffman LC, Chan K, **Wise PH**. Variation in specialty care hospitalization for children with chronic conditions in California: A total-population study. *Pediatrics*. 2010;125:1190-9.
79. Wise MD, Little AA, **Wise PH**, Wang CJ. Can state early intervention programs meet the increased demand of children suspected of having autism spectrum disorders? *J Devel Behav Peds*. 2010;31:469-76.
80. Hsia RY, Wang E, Saynina O, **Wise PH**, Perez-Stable EJ, Auerbach A. Factors associated with trauma center utilization for elderly patients with trauma: A statewide analysis, 1999-2008. *Arch Surg*. 2011; 146:585-92.
81. Pineda N, Chamberlain LJ, Chan J, Cidon MJ, **Wise PH**. Access to pediatric subspecialty care: A population study of pediatric rheumatology inpatients in California. *Arthritis Care Res*. 2011;63: 998-1005.
82. Arroyo AC, Wang NE, **Wise PH**. The association between insurance status and emergency department disposition of injured California children. *Acad Emerg Med*. 2012;19:541-51.
83. Huffman L, Horwitz S, **Wise PH**. Hospitalization after an emergency department visit for California children with psychiatric disorders. *Psych Serv* (In Press).
84. Wise PH. Emerging technologies and their impact on disability. *Future of Child*. 2012;22:169-91.
85. Goldhaber-Fiebert J, Rubinfeld RE, Bhattacharya J, Robinson T, **Wise PH**. The utility of childhood and adolescent obesity assessment in relation to adult health. *Med Dec Making*. 2012 (epub ahead of print)
86. Stevenson DK, Shaw GM, **Wise PH**, Norton ME, Druzin ML, Valantine HA, McFarland DA. Transdisciplinary translational science and the case of preterm birth. *J Perinatol*. 2012; 1-8.(epub ahead of print)
87. Huffman LC, Wang NE, Saynina O, Wren FJ, **Wise PH**, Horwitz SM. Predictors of hospitalization after an emergency department visit for California youths with psychiatric disorders. *Psych Serv*. 2012;63:896-905.
88. **Wise PH**. Public policy implications of promoting growth. *Nestle Nutr Inst Ser*. 2013;71:199-206.
89. Chamberlain LJ, Pineda N, Winestone L, Saynina O, Rangaswami A, Link M, **Wise PH**. Increased utilization of pediatric subspecialty care: a population study of pediatric oncology inpatients in California. *J Ped Hem Onc*. 2014;36(2):99-107.
90. Nayfack AM, Huffman LC, Feldman HM, Chan J, Saynina O, **Wise PH**. Hospitalizations of children with autism increased from 1999-2009. *J Autism Dev Dis*. (In Press).
91. Batniji R, Khatib L, Cammett, M, Sweet J, Basu S, Jamal A, **Wise PH**, Giacaman R. Governance and health in the Arab world. *Lancet*. 2014;383:343-55.
92. Carmichael SL, Cullen MR, Mayo JA, Gould JB, Loftus P, Stevenson DK, **Wise PH**, Shaw GM. Population-level correlates of preterm delivery among black and white women in the U.S. *PLoS One*. 2014;9(4):e94153.

93. Shaw GM, **Wise PH**, Mayo J, Carmichael SL, Ley C, Lyell DJ, Shachar BZ, Melsop K, Phibbs CS, Stevenson DK, Parsonnet J, Gould JB. Maternal prepregnancy body mass index and risk of spontaneous preterm birth. *Pediatr Perinat Epi.* 2014;28:302-11.
94. Lakkam M, Wager S, **Wise PH**, Wein LM. Quantifying and exploiting the age dependence in the effect of supplementary food for child undernutrition. *PLoS One.* 2014;9:e99632.
95. Mudumbai SC, Honkanen A, Chan J, Schmitt S, Saynina O, Hackel A, Gregory G, Phibbs CS, **Wise PH**. Variations in inpatient pediatric anesthesia in California from 2000 to 2009: A caseload and geographic analysis. *Pediatr Anesth.* (In Press)
96. Cheng TL, **Wise PH**, Halfon N. Quality health care for children and the Affordable Care Act: A voltage drop checklist. *Pediatrics.* (In Press).
97. Halfon N, Wise PH, Forrest C. Optimizing children's health development: New challenges require major new policy solutions. *Health Aff* (In Press).

Other Articles:

1. Avery ME, **Wise P**. Continuing challenges in the reduction of neonatal mortality. *Amer J Dis Child* 1983;137:321-2.
2. McGravey A, **Wise P**. Evaluation of the febrile child under two years of age. *J Emer Med* 1984;1:299-305.
3. Richmond JB, **Wise PH**. The struggle for justice in infant health. *J Nur-Midw* 1986; 31:219-23.
4. **Wise PH**, Meyers A. Poverty and child health. *Pediatric Clin N Amer* 1988;36:1169-86.
5. **Wise PH**, Eisenberg L. What do regional variations in the rates of pediatric hospitalizations really mean? *N Engl J Med* 1989;320:1209-1211.
6. Novello A, **Wise PH**, Willoughby A, Pizzo P, Final Report of the United States Department of Health and Human Services Secretary's Work Group on Pediatric Human Immuno-deficiency Virus Infection and Disease. *Pediatrics* 1989;84:547-555.
7. Novello A, **Wise PH**, Kleinman D. Hispanic health: time for data, time for action. *JAMA* 1991;265(2):253-255.
8. Novello A, **Wise PH**, Kleinman D, Orenstein, WA, Seppe S. Healthy children - ready to learn - the challenge to the medical community. *JAMA* 1991;265(11):1164.
9. Novello AC, Clinton JJ Jr, **Wise PH**, Mitchell WI. From the Surgeon General, US Public Health Service. *JAMA.* 1991;266(6):770.
10. **Wise PH**, Pursley DM. Infant mortality as a social mirror. *N Engl J Med* 1992;326:1558-9.
11. McCormick MC, **Wise PH**. Infant mortality. *Curr Opin Peds* 1993;5(5):552-557.
12. **Wise PH**. What you measure is what you get: prenatal care and women's health. *Am J Public Health* 1994;84(9):1374-1375.

13. Chavkin W, **Wise PH**. Ethics in context. *Am J Obstet Gynec*. 1997;176:732-3.
14. Chavkin W, **Wise PH**, Elman D. Policies towards pregnancy and addiction. Sticks without carrots. *Annals of the New York Academy of Sciences*. 1998;846:335-40.
15. **Wise PH**, Elman D. Topics for our times: welfare reform and women's health. *Am J Public Health*. 1998;88(7):1017-8.
16. **Wise PH**. Efficacy and justice: the importance of medical research and tertiary care to social disparities in infant mortality. *J Perinatology* 1999;19:24-7.
17. Bauchner H, **Wise PH**. Antibiotics without prescription: "bacterial or medical resistance"? *Lancet*. 2000; 355(9214):1480.
18. Zuckerman B, Sharfstein J, **Wise PH**. Child health initiatives and journal narrow-mindedness. *Lancet*. 2000; 356:1626.
19. Chavkin W, **Wise PH**, Romero DR. Welfare, women, and children: it's time for doctors to speak out. *JAMWA*. 2002;57:3-4.
20. **Wise PH**. SCHIP: effective but vulnerable. *Arch Ped Adol Med*. 2002;156(12):1175-6.
21. **Wise PH**. The anatomy of a disparity in infant mortality. *Ann Rev Public Health*. 2003;24:114-36.
22. **Wise PH**. Framework as metaphor: the promise and perils of MCH life-course frameworks. *J Mat Child Health*. 2003;7:151-6.
23. **Wise PH**, Chamberlain L. An analytic voice in the policy storm. *Amb Peds*.2005;5(1):45-6.
24. **Wise PH**, Blair ME. The UNICEF Report on child well-being: a commentary. *Amb Peds*. 2007;7:265-7.
25. **Wise PH**. The rebirth of pediatrics. *Pediatrics*. 2009; 123: 413-6.
26. **Wise PH**. Children of the recession. *Arch Pediatr Adol Med*. 2009;163:1063-4.
27. **Wise PH**. Child health policy: Where are you when we need you? *Acad Peds*. 2010; 10:285-6.
28. **Wise PH**. Integrity matters: Recapturing the relevance of general academic pediatrics. *Acad Peds*.2011; 11:123-7.
29. Batniji R and **Wise PH**. The morality of saved lives. *J Bioethics*. *Am J Bioeth*. 2012;12(12):1-2.
30. Stoll BJ, Stevenson DK, **Wise PH**. The transformation of child health research: innovation, market failure and the public good. *JAMA*. 2013;309: 1779-80.
31. Lackritz EM, Wilson CB, Guttmacher AE, et al and the Preterm Birth Research Priority Setting Group (**Wise PH** member). A solution pathway for preterm birth: accelerating a priority research agenda. *Lancet Glob Health*. 2013;1:e328-30.
32. Cheng T, Halfon N, **Wise PH**. The promise and peril of the Affordable Care Act for children. *JAMA*. 2014;311:1733-4.

33. Gupta R, **Wise PH**. Leveraging information technology to improve control of neglected diseases. *PLOS Negl Trop Dis*. 2013;7(11) :e2353.
34. Profit J, **Wise PH**, Lee HC. Consequences of the affordable care act for sick newborns. *Pediatrics*. 2014. (In Press)

Book Chapters:

1. **Wise P**. Principles of emergency care. In: Green M, Haggerty R, eds., Ambulatory Pediatrics III. New York: WB Saunders, 1983;p.158-65.
2. **Wise P**, Fisher J, Bates J. Pediatric emergencies. In: May H, ed. Emergency Medicine. New York: John Wiley and Sons, 1983;p. 845-80.
3. **Wise P**, O'Rourke P. Principles of emergency care. In: Graef J, Cone T, eds., Manual of Pediatric Therapeutics, 3rd ed. Cambridge: Little, Brown and Co., 1984;p. 3/1-3/14.
4. Kotelchuck M, **Wise PH**. The epidemiology of prematurity: goals for prevention. In: Tauesch HW, Yogman M, eds., Management of the High Risk Infant During First Years of Life. Boston: Little, Brown and Co., 1986;p.13/1-13/13.
5. **Wise PH**, Richmond JB. Preventive services in maternal and child health. In: Wallace H, ed. Maternal and Child Health Practices, 3rd ed. New York: Third Publishing Co.: 1988;p. 217-26.
6. **Wise PH**, Novello A. Policy issues. In: Pizzo PA, Wilfert CM, ed. Pediatric AIDS. Baltimore, MD: Williams and Wilkins; 1991;p. 841-9.
7. **Wise PH**, Lowe JA. Approach to the child. In: May H, ed. Emergency Medicine, 2nd ed. New York: WB Saunders, 1992;p. 1757-63.
8. **Wise PH**, Schorr L. Poverty and affluence. In: Levine MD, Crocker A, Carey W, ed. Developmental Behavioral Pediatrics, 2nd ed., New York: Saunders and Co., 1992;p. 160-70.
9. **Wise PH**. The social context of maternal and child health care reform. In: Kotch J, Blakely, CH, eds. In: A Pound of Prevention, The Case for Universal Maternity Care in the U.S. Washington, DC: American Public Health Association, 1992:9-25.
10. Gortmaker SL, Kempe A, Homer CJ, Barkan S, Sobol A, **Wise PH**. Maternal smoking and childhood mortality and morbidity. In: Gupta PC, Hamner JE, Murti PH, ed. Control of Tobacco-related Cancers and Other Diseases. Bombay: Oxford University Press, 1992;p. 159-66.
11. **Wise PH**. Transforming analysis into local action. In: Wise PH, ed. A Manual for Fetal and Infant Mortality Review. Washington, DC: American College of Obstetricians and Gynecologists, 1991;p.2/1-2/8.
12. Sappenfield W, **Wise PH**. Developing a methodology that meets local needs. In: Wise PH, ed. A Manual for Fetal and Infant Mortality Review. Washington, DC: American College of Obstetricians and Gynecologists, 1991;p. 3/1-3/27.
13. **Wise PH**. The analysis of vital statistics. In: Wise PH, ed. A Manual for Fetal and Infant Mortality Review. Washington, DC: American College of Obstetricians and Gynecologists, 1991;p. 4/1-4/26.

14. Kotelchuck M, **Wise PH**. Assessing prenatal care. In: Wise PH, ed. A Manual for Fetal and Infant Mortality Review. Washington, DC: American College of Obstetricians and Gynecologists, 1991;p. 13/1-13/13.
15. **Wise PH**. Expanding access to health care for infants, children, and adolescents. In: Pizzo PA, Wilfert CM, ed. Pediatric AIDS. Baltimore, MD: Williams and Wilkins, 2nd ed. 1994;p. 756-65.
16. **Wise PH**. Infant Mortality in the U.S. In: Worcester N, Whatley MH, ed. Women's Health. Dubuque, IA: Kendall Hunt Publishing, March, 1994;p. 91-4.
17. **Wise PH**. Lowe JA. Preventing childhood injuries. In: Burg F, Inglefinger J, ed. Current Pediatric Therapy 15. New York: Saunders and Co., 1996;p. 722-3.
18. **Wise PH**. Infant mortality: confronting disciplinary fragmentation in research and policy. In: Sachs BP, Beard R, Papiernik E, Russell C, eds. Reproductive Health Care for Women and Babies. New York: Oxford Press, 1995;p. 375-90.
19. **Wise PH**. Expanding access to health care for infants, children, and adolescents. In: Pizzo PA, Wilfert CM, ed. Pediatric AIDS. Baltimore, MD: Williams and Wilkins, 3rd ed. 1998;p.805-17.
20. **Wise PH**. Racism and social class. In: Green M, Haggerty R, Weitzman M. eds. Ambulatory Pediatrics V. New York: WB Saunders,1999;p. 35-7.
21. Askew G, **Wise PH**. The neighborhood: poverty and affluence. In: Levine MD, Crocker A, Carey W, ed. Developmental Behavioral Pediatrics, 3rd ed., New York: Saunders and Co. 1999;p. 177-87.
22. McCloskey L, **Wise PH**. Maternal and infant health in the United States. In: Wallace, Paine, ed. Health and Welfare for Families in the 21st Century. New York: Jones and Bartlett. 1999;p. 347-66.
23. Katz M, **Wise PH**. Healthy women: Putting the woman into maternal and child health. In: Mothers, Infants and Children At Risk. Boston: Massachusetts Dept. of Public Health. 1999. p 39-52.
24. **Wise PH**, Brett M. Prenatal care and women's health. In: McCormick M and Siegel J, eds. Prenatal Care: Effectiveness and Implementation. Cambridge: Cambridge University Press.2000;p 301-15.
25. Chavkin W, Romero D, **Wise PH**. What do sex and reproduction have to do with welfare? In: Piven FF, Acker J, Hallock M, and Morgen S, eds. Work, Welfare and Politics. Eugene, OR: University of Oregon Press. 2002;p. 95-112.
26. **Wise PH**. Prenatal care, delivery, and birth outcomes. In: Halfon N and Shuster MA, McLearn, KT, eds. Childbirth in America. Cambridge: Cambridge University Press. 2003; p. 263-92.
27. Fox K, **Wise PH**. Poverty and child health. In: Osborn L, DeWitt T, and First LR, eds. Comprehensive Pediatrics (In Press).
28. **Wise PH**. Technology and the future of child health. In: Greenberg R ed. About Children: An Authoritative Resource on the State of Childhood Today. Elk Grove Village, IL: American Academy of Pediatrics. 2004.

29. **Wise PH.** Clinical innovation and the future of pediatrics. In: Zuckerman B ed. The Future of Pediatric Education in the 21st Century. New York: Josiah Macy Jr. Foundation. 2004.
30. **Wise PH.** Chronic illness. In: Behrman RE, Kliegman R, Jenson HB, eds. Nelson's Textbook of Pediatrics, 16th ed. New York: WB Saunders. 2007.
31. **Wise PH, Richmond JB.** The history of child developmental-behavioral health policy in the United States. In: Wolraich ML, Drotar DD, Dworkin PH, Perrin E, ed. Developmental-Behavioral Pediatrics. Philadelphia: Mosby. 2008.
32. Huffman L, **Wise PH.** The neighborhood and community: poverty and affluence. In: Carey W, Crocker A, Elias ER, Feldman HM, Coleman WL. eds. Developmental Behavioral Pediatrics, 4th ed., New York: Saunders and Co. 2008.
33. **Wise PH.** Infant mortality. In Heggenhougen K and Quah S, eds. International Encyclopedia of Public Health. New York:Elsevier. 2008.
34. Chamberlain L, **Wise PH.** Chronic illness. In: Behrman RE, Kliegman R, Jenson HB, eds. Nelson's Textbook of Pediatrics, 17th ed. New York: WB Saunders. 2011.
35. Chamberlain L, **Wise PH.** Chronic illness. In: Behrman RE, Kliegman R, Jenson HB, eds. Nelson's Textbook of Pediatrics, 18th ed. New York: WB Saunders. (In Press).

Books and Monographs:

1. **Wise PH,** ed. A Manual for Fetal and Infant Mortality Review. Washington, DC: American College of Obstetricians and Gynecologists; 1991
2. Lescohier I, Shapiro E, Guyer B, **Wise PH.** Preventing child death: the Massachusetts child death study. Boston: Massachusetts Department of Public Health; 1989.
3. **Wise PH.** The violation of human rights in Malaysia: health and environmental activists and the repression of political dissent. Boston: Physicians for Human Rights; 1988.
4. Gortmaker S, **Wise PH.** First injustice: infant mortality in the United States. Working Paper No. 12. Program in Society and Health. Boston: Harvard School of Public Health 1995.
5. Baltay M, McCormick MC, **Wise PH.** Evaluation of the fetal and infant mortality review (FIMR) programs in the Health Start Program. Rockville, MD: Health Resources and Services Administration. 1997.
6. Ford D, Venkateswarlu D, John KR, Kasper J, **Wise PH.** Child Labor in India: A Matter of Health and Human Rights. Boston, MA: Physicians for Human Rights. (In Press).
7. Bravata DM, Wang E, Holty J-E, Lewis R, **Wise PH,** Nayak S, Liu H, McDonald KM, Owens DK. Pediatric Anthrax: Implications for Bioterrorism Preparedness. Evidence Report/Technology Assessment No. 141. (Prepared by Stanford University—UCSF Evidencebased Practice Center under Contract No. 290-02-0017.) AHRQ Publication No. 06-E013. Rockville, MD: Agency for Healthcare Research and Quality. August 2006.
8. Bravata DM, Sundaram V, Lewis R, Gienger A, Gould MK, McDonald KM, **Wise PH,** et al. Closing the Quality Gap: A Critical Analysis of Quality Improvement Strategies. Volume 5--Asthma Care. Evidence Report/Technology Assessment No. 9. (Prepared by Stanford University—

UCSF Evidence-based Practice Center under Contract No. 290-02-0017.) AHRQ Publication No. 06-E013. Rockville, MD: Agency for Healthcare Research and Quality. January 2007.

9. **Wise PH, Huffman L, Brat G.** A Critical Analysis of Care Coordination Strategies for Children with Special Health Care Needs: Technical Review No. 14. AHRQ Publication No. 07-0054. Rockville, MD: Agency for Healthcare Research and Quality. June 2007.