CURRICULUM VITAE

SUSAN E. ANDRADE

BUSINESS: Meyers Primary Care Institute

630 Plantation Street Worcester, MA 01605

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EDUCATION

1988 Bachelor of Science, Pharmacy, University of Rhode Island

1994 Doctor of Science, Epidemiology, Harvard School of Public Health

Thesis: Epidemiology of Antihyperlipidemic Drug

Discontinuations

ACADEMIC APPOINTMENTS

1994-1996	Assistant Professor of Pharmacoepidemiology, non-tenure track position, Department of
	Applied Pharmaceutical Sciences, University of Rhode Island, Kingston, Rhode Island
1996-2001	Assistant Professor of Pharmacoepidemiology, tenure track position, Department of
	Applied Pharmaceutical Sciences, University of Rhode Island, Kingston, Rhode Island
2001	Associate Professor of Pharmacoepidemiology (tenured), Department of Applied
	Pharmaceutical Sciences, University of Rhode Island, Kingston, Rhode Island
2001-2007	Assistant Professor, Department of Medicine, University of Massachusetts Medical
	School, Worcester, Massachusetts
2001-2012	Research Associate Professor, Department of Medicine, University of Massachusetts
	Medical School, Worcester, Massachusetts

OTHER PROFESSIONAL EXPERIENCE

1988-1995	Registered Pharmacist, CVS Pharmacy, Woonsocket, Rhode Island
1989-1990	Research Assistant, Department of Epidemiology, Harvard School of Public Health,
	Boston, Massachusetts
1994-1996	Program Analyst, Department of Epidemiology, Harvard School of Public Health,
	Boston, Massachusetts
1996-	Senior Research Associate, Meyers Primary Care Institute, Worcester, Massachusetts

Internships

1985-1988	Pharmacy Intern, CVS Pharmacy, Woonsocket, Rhode Island
1987	Research Assistant, Departments of Biophysical Chemistry and Medicinal Organic
	Chemistry, Brown University and University of Rhode Island, Providence, Rhode Island
1988	Pharmacy Intern, Roger Williams Hospital and Women and Infants Hospital,

Providence, Rhode Island

Research Intern, Corporate Drug Safety, Boehringer Ingelheim GmbH, Ingelheim am

Rhein, Germany

CONSULTANCIES

1993-1995	Research consultant in pharmacoepidemiology, Epidemiology Resources Inc., Newton
	Lower Falls, Massachusetts
1006	Consulting to health ages plan and pharmacoutical manufacturing and medical

1996- Consulting to health care plan and pharmaceutical manufacturing and medical

diagnostics companies in the area of pharmacoepidemiology

1996-2001 Research consultant in pharmacoepidemiology, Meyers Primary Care Institute,

Worcester, Massachusetts

TEACHING EXPERIENCE

Course Instructor

1994-2000	Public Health, University of Rhode Island
1996	Pharmacoeconomic Analysis, University of Rhode Island
1997-2000	Public Health Practicum in Emerging Infectious Diseases, University of Rhode Island
1998-2000	Pharmacoepidemiology, University of Rhode Island

Teaching Assistant

1991	Principles of Epidemiology, Harvard School of Public Health
1993	Pharmacoepidemiology, Harvard School of Public Health
1991-1994	Teaching Fellow, Department of Epidemiology, Harvard School of Public Health

HONORS AND AWARDS

1998	Thomas M. Ryan/CVS Chair in Community Pharmacy
2004	ISPE – Pharmacoepidemiology and Drug Safety Distinguished Article Award

PROFESSIONAL LICENSES

1988 Registered pharmacist (Rhode Island, Massachusetts)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

1991-	International Society for Pharmacoepidemiology
1991-2000	Society for Epidemiologic Research
1988-	American Pharmaceutical Association
1996-2000	American Association of Colleges of Pharmacy

PRESENTATIONS

Invited Presentations

1994 Seminar Speaker, "Desktop Manipulation of Large Health Care Databases," Pharmacoepidemiology Seminar Series, Harvard School of Public Health, Boston, Massachusetts 1995 Speaker, "Statistical Issues in Clinical Research," Basic Science Lecture Series, St. Vincent Hospital, Worcester, Massachusetts 1995 Continuing Pharmacy Education Course Speaker, "Treatment of Hypercholesterolemia: The Success of Antihyperlipidemic Drug Therapy in Primary Care Settings," Issues in Patient Management of Hypercholesterolemia Pharmacy Program, Needham, Massachusetts 1995 Continuing Pharmacy Education Course Speaker, "Pharmacoepidemiology and Pharmacoeconomics: The Example of Cholesterol-Lowering Drug Therapy," University of Rhode Island 1996 Symposium Speaker, "Comparative Safety of Analgesics," Novalgin Symposium, Rimbo, Sweden Symposium Speaker, "Safety Profile of Dipyrone," Novalgin Assessment Meeting, New 1997 York, New York 2005 Seminar Speaker, "Prescription Drug Use During Pregnancy," Pharmacoepidemiology Seminar Series, Harvard School of Public Health, Boston, Massachusetts

Presentations, Scientific Conferences

- "Determinants of Adverse Effects and Therapeutic Failure With Antihyperlipidemic Drug Therapy," 7th International Conference on Pharmacoepidemiology, Basel, Switzerland
- "Change in Drug Use: Switch or Supplementation to Existing Therapy," 8th International Conference on Pharmacoepidemiology, Minneapolis, Minnesota
- "Effects of Gender and Age on the Discontinuation Rate of Antihyperlipidemic Drug Therapy," 10th International Conference on Pharmacoepidemiology, Stockholm, Sweden
- 1994 "Antihyperlipidemic Drug Discontinuations: Do Rates Reported in Clinical Trials Predict Rates in Primary Care Settings," 10th International Conference on Pharmacoepidemiology, Stockholm, Sweden

1994 "Discontinuation of Drug Therapy: Assessment By Means of Automated Databases," 10th International Conference on Pharmacoepidemiology, Stockholm, Sweden 1997 "Rates of Hospitalization During Antihyperlipidemic Drug Use and After Discontinuation of Therapy," HMO Research Network Conference, Cambridge, Massachusetts 1997 "Lipid Studies: Compliance and the Real World," Association for Pharmacoeconomics and Outcomes Research Conference on Pharmacoeconomics and Outcomes Research Issues of Lipid Therapy, Orlando, Florida 1997 "Hospitalization Rates During Antihyperlipidemic Drug Use and After Discontinuation of Therapy," Drug Information Association Conference on Persistence/Compliance Among Patients on Drug Therapy, Baltimore, Maryland "Evaluation of a Comprehensive Formulary Switch in the Managed Care Setting: the 1999 Case of Hormone Replacement Therapy," 15th International Conference on Pharmacoepidemiology, Boston, Massachusetts 2000 "Hepatic Transaminase Testing Frequency and Patterns in Patients on HMG-CoA Reductase Inhibitors," 16th International Conference on Pharmacoepidemiology, Barcelona, Spain 2001 "Drug Benefit Plans Under Managed Care: To What Extent Do Elderly Subscribers Selecting Less Drug Coverage Put Themselves at Increased Financial Responsibility?" 17th International Conference on Pharmacoepidemiology, Toronto, Canada 2002 "Utilization of Controller Medications Among Adults Receiving Asthma Drugs" HMO Research Network 8th Annual Conference, Long Beach, California 2002 "Temporal Trends in Asthma Drug Utilization Among Adults" HMO Research Network 8th Annual Conference, Long Beach, California 2003 "Prescription Drug Use Before and During Pregnancy" HMO Research Network 9th Annual Conference, Denver, Colorado 2004 "Recommendations For Safer Drug Use in Pregnancy" Agency for Healthcare Research and Quality Expert Meeting on Improving the Use and Safety of Medications in Women Through Gender and Race Analysis, Rockville, Maryland 2005 "Antidiabetic Drug Treatment Patterns and Glycemic Control in a U.S. Managed Care Population" 21st International Conference on Pharmacoepidemiology, Nashville, Tennessee 2007 "Use of Cardiovascular Medications During Pregnancy" HMO Research Network 13th Annual Conference, Portland, Oregon

2009	"Medication Exposure in Pregnancy Risk Evaluation Program" HMO Research Network 15th Annual Conference, Danville, Pennsylvania
2010	Seminar Speaker, "Pharmacoepidemiologic Research Program: Examples of Current Adverse Events Research," 2010 Spring Practice and Research Forum, American College of Clinical Pharmacy, Charlotte, North Carolina
2011	"Developing Validated Algorithms To Ascertain Medical Procedures Used During Pregnancy And Related Clinical Conditions" HMO Research Network 17th Annual Conference, Boston, MA

BIBLIOGRAPHY

Journal Articles

Andrade SE, Walker AM, Gottlieb LK, Hollenberg NK, Testa MA, Saperia GM, Platt R. Discontinuation of antihyperlipidemic drugs: Do rates reported in clinical trials reflect rates in primary care settings? *N Engl J Med* 1995;332:1125-1131.

Andrade SE, Platt R, Gottlieb LK, Saperia GM, Walker AM. Discontinuation of antihyperlipidemic drug therapy: assessment by means of automated databases. *Pharmacoepidemiol Drug Saf* 1996;5:113-120.

Andrade SE, Saperia GM, Gottlieb LK, Walker AM, Platt R. Effects of gender, age, and previous discontinuation of therapy on the discontinuation rate of antihyperlipidemic drug therapy. *Cardiovascular Risk Factors* 1997;7:167-172.

Andrade SE. Lipid therapy and compliance. *Drug Benefit Trends* 1998;10:39-43,52.

Andrade SE, Martinez C, Walker AM. Comparative safety evaluation of nonnarcotic analgesics. *J Clin Epi* 1998;51:1357-1365.

Andrade SE and Willey C. H2 receptor antagonist use among Medicaid patients enrolled in managed care health plans. *Clinical Research and Regulatory Affairs* 1998;15:131-144.

Andrade SE. Lipid pharmacoeconomic studies: compliance in the real world. *Value in Health* 1998;1:171-173.

Donahue JG, Andrade SE, Cain EM, Defor TA, Goodman MJ, Gurwitz J, Platt R. Lamotrigine and severe skin eruptions. *Pharmacoepidemiol Drug Saf* 1998;7:415-7.

Andrade SE, Gurwitz JH, Fish LS. The effect of an rx-to-otc switch on medication prescribing patterns and utilization of physician services: the case of H2-receptor antagonists. *Medical Care* 1999;37:424-430.

Andrade SE, Saperia GM, Berger ML, Platt R. Effectiveness of antihyperlipidemic drug management in clinical practice. *Clin Ther* 1999;21:1973-1987.

Chan KA, Andrade SE, Boles M, Buist DSM, Chase G, Donahue JG, Goodman MJ, Gurwitz JH, LaCroix AZ, Platt R. HMG-CoA reductase inhibitors and reduced risk of fracture among older women. *Lancet* 2000;355:2185-2188.

Harrold LR, Yood R, Andrade S, Reed J, Cernieux J, Straus W, Weeks M, Lewis B, Gurwitz JH. Evaluating the validity of osteoarthritis diagnoses in an administrative database. *Arthritis Rheum* 2000;43:1881-1885.

Andrade SE, Gurwitz JH, Cernieux J, Fish LS. Evaluation of a formulary switch from conjugated to esterified estrogens in a managed care setting. *Medical Care* 2000;38:970-975.

Harrold LR, Gurwitz JH, Field TS, Andrade SE, Fish LS, Jarry PD, Yood R. The diffusion of a novel therapy into general medical practice: the case of sildenafil. *Arch Intern Med* 2000;160:3401-3405.

Smalley W, Shatin D, Wysowski DK, Gurwitz J, Andrade SE, Goodman M, Chan KA, Platt R, Schech SD, Ray WA. Contraindicated use of cisapride: the impact of food and drug administration regulatory action. *JAMA* 2000;284:3036-3039.

Ward A, Willey C, Andrade S. Medications provided to asthmatic children: a historical cohort study comparing clinical practice with NIH recommendations. *Pharmacoepidemiol Drug Saf* 2000;9:511-520.

Ward A, Willey C, Andrade S. Patient education provided to asthmatic children: a historical cohort study of the implementation of NIH recommendations. *J Asthma* 2001;38(2):141-147.

Platt R, Davis R, Finkelstein J, Go AS, Gurwitz JH, Roblin D, Soumerai S, Ross-Degnan D, Andrade S, Goodman MJ, Martinson B, Raebel MA, Smith D, Ulcickas-Yood M, Chan A. Multicenter epidemiologic and health services research on therapeutics in the HMO Research Network Center for Education and Research in Therapeutics (CERT). *Pharmacoepidemiol Drug Saf* 2001;10:373-377.

Andrade SE, Gurwitz JH. Drug benefit plans under managed care: to what extent do older subscribers selecting less drug coverage put themselves at increased financial risk? *J Am Geriatr Soc* 2002;50:178-181.

Andrade SE, Gurwitz JH, Chan KA, Donahue JG, Beck A, Boles M, Buist DSM, Goodman M, LaCroix AZ, Levin TR, Platt R. Validation of diagnoses of peptic ulcers and bleeding from administrative databases: a multi-health maintenance organization study. *J Clin Epi* 2002;55:310-313.

Donahue JG, Chan KA, Andrade SE, Beck A, Boles M, Buist DS, Carey VJ, Chandler JM, Chase GA, Ettinger B, Fishman P, Goodman M, Guess HA, Gurwitz JH, LaCroix AZ, Levin TR, Platt R. Gastric and duodenal safety of alendronate. *Arch Intern Med* 2002;162:936-942.

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Harrold LR, Yood RA, Straus W, Andrade SE, Reed JI, Cernieux J, Lewis B, Gurwitz JH. The challenges of estimating health service utilization for osteoarthritis patients on a population level. *J Rheumatol* 2002;29:1931-1936.

Gurwitz JH, Andrade SE. Risk management in therapeutics: when the patient becomes the last line of defense. *Pharmacoepidemiol Drug Saf* 2002:11:637-639.

Andrade SE, Donahue JG, Chan KA, Watson DJ, Platt R. Liver function testing in patients on HMG-CoA reductase inhibitors. *Pharmacoepidemiol Drug Saf* 2003;12:307-313.

Andrade SE, Majumdar SR, Chan KA, Buist DSM, Go AS, Goodman M, Smith DH, Platt R, Gurwitz JH. Low frequency of treatment of osteoporosis among postmenopausal women following a fracture. *Arch Intern Med* 2003;163:2052-2057.

Andrade SE, Gurwitz JH, Field TS, Kelleher M, Majumdar SR, Reed G, Black R. Hypertension management: the care gap between clinical guidelines and clinical practice. *Am J Manag Care* 2004;10:481-486.

Andrade SE, Gurwitz JH, Davis RL, Chan KA, Finkelstein JA, Fortman K, McPhillips H, Raebel MA, Roblin D, Smith DH, Ulcickas Yood M, Morse AN, Platt R. Prescription drug use in pregnancy. *Am J Obstet Gynecol* 2004;191:398-407.

Kogut SJ, Andrade SE, Willey CW, Larrat EP. Nonadherence as a predictor of antidiabetic therapy intensification (augmentation). *Pharmacoepidemiol Drug Saf* 2004;13:591-598.

Abughosh SM, Kogut SJ, Andrade SE, Larrat EP, Gurwitz JH. Persistence with lipid-lowering therapy: influence of the type of lipid-lowering agent and drug benefit plan option in elderly patients. *J Manag Care Pharm* 2004;10:404-411.

Harrold LR, Andrade SE, Eisner M, Buist AS, Go A, Vollmer WM, Chan KA, Frazier EA, Weller PF, Wechsler ME, Davis KJ, Platt R. Identification of patients with Churg-Strauss syndrome (CSS) using automated data. *Pharmacoepidemiol Drug Saf* 2004;13:661-667.

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Stille CJ, Andrade SE, Huang S, Nordin J, Raebel MA, Go AS, Chan KA, Finkelstein JA. Increased use of second-generation macrolide antibiotics for children in nine US health plans. *Pediatrics* 2004; 114:1206-1211.

Graham DJ, Staffa JA, Shatin D, Andrade SE, Schech SD, Le Grenade L, Gurwitz JH, Chan KA, Goodman MJ, Platt R. Incidence of hospitalized rhabdomyolysis in patients treated with lipid-lowering drugs. *JAMA* 2004;292:2585-2590.

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Wagner AK, Chan KA, Dashevsky I, Raebel MA, Andrade SE, Lafata JE, Davis RL, Gurwitz JH, Soumerai SB, Platt R. FDA drug prescribing warnings: Is the black box half empty or half full? *Pharmacoepidemiol Drug Saf* 2006;15:369-386.

Willey CJ, Andrade SE, Cohen J, Fuller JC, Gurwitz JH. Polypharmacy with oral antidiabetic agents: an indicator of poor glycemic control. *Am J Manag Care* 2006;12:435-440.

Andrade SE, Raebel MA, Morse AN, Davis RL, Chan KA, Finkelstein JA, Fortman K, McPhillips H, Roblin D, Smith DH, Ulcickas Yood M, Platt R, Gurwitz JH. Use of prescription medications with a potential for fetal harm among pregnant women. *Pharmacoepidemiol Drug Saf* 2006;15:546-554.

Andrade SE, Kahler KH, Frech F, Chan KA. Methods for evaluation of medication adherence and persistence using automated databases. *Pharmacoepidemiol Drug Saf* 2006;15:565-574.

Harrold LR, Yood RA, Mikuls TR, Andrade SE, Davis J, Fuller J, Chan KA, Roblin D, Raebel MA, Von Worley A, Platt R, Saag KG. Sex differences in gout epidemiology, evaluation and treatment. *Ann Rheum Dis* 2006;65:1368-72.

Raebel MA, Carroll NM, Simon SR, Andrade SE, Feldstein AC, Lafata JE, Nelson WW, Chan KA, Gunter MJ, Tolsma D, Platt R. Liver and thyroid monitoring in ambulatory patients prescribed amiodarone in 10 HMOs. *J Manag Care Pharm* 2006;12:656-664.

Schech S, Graham D, Staffa J, Andrade SE, La Grenade L, Burgess M, Blough D, Stergachis A, Shatin D, Chan KA, Platt R. Risk factors for statin-associated rhabdomyolysis. *Pharmacoepidemiol Drug Saf* 2007;16:352-358.

Raebel MA, McClure DL, Simon SR, Chan KA, Feldstein A, Andrade SE, Lafata JE, Roblin D, Davis RL, Gunter MJ, Platt R. Laboratory monitoring of potassium and creatinine in ambulatory patients receiving angiotensin converting enzyme inhibitors and angiotensin receptor blockers. *Pharmacoepidemiol Drug Saf* 2007;16:55-64.

Harrold LR, Saag KG, Yood RA, Mikuls TR, Andrade SE, Fouayzi H, Davis J, Chan KA, Raebel MA, Von Worley A, Platt R. Validity of gout diagnoses in administrative data. *Arthritis Rheum* 2007;57:103-108.

Raebel MA, McClure DL, Chan KA, Simon SR, Feldstein AC, Lafata JE, Andrade SE, Gunter MJ, Nelson WW, Roblin D, Platt R. Laboratory evaluation of potassium and creatinine among ambulatory patients prescribed spironolactone: are we monitoring for hyperkalemia? *Ann Pharmacother* 2007;41:193-200.

Herrinton LJ, Liu L, Lafata JE, Allison JE, Andrade SE, Korner EJ, Chan KA, Platt R, Hiatt, D, O'Connor S. Estimation of the period prevalence of inflammatory bowel disease among nine health plans using computerized diagnoses and outpatient pharmacy dispensings. *Inflamm Bowel Dis* 2007;13:451-461.

Harrold LR, Patterson MK, Andrade SE, Dube T, Go AS, Buist AS, Chan KA, Weller PF, Wechsler ME, Yood RA, Davis KJ, Platt R, Walker AM. Asthma drug use and the development of Churg-Strauss syndrome (CSS). *Pharmacoepidemiol Drug Saf* 2007;16:620-626.

Davis RL, Rubanowice D, McPhillips H, Raebel MA, Andrade SE, Smith D, Yood MU, Platt R. Risks of congenital malformations and perinatal events among infants exposed to antidepressant medications during pregnancy. *Pharmacoepidemiol Drug Saf* 2007;16:1086-1094.

Brown JS, Kulldorff M, Chan KA, Davis RL, Graham D, Pettus PT, Andrade SE, Raebel MA, Herrinton L, Roblin D, Boudreau D, Smith D, Gurwitz JH, Gunter MJ, Platt R. Early detection of adverse drug events within population-based health networks: application of sequential testing methods. *Pharmacoepidemiol Drug Saf* 2007;16:1275-1284.

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Andrade SE, Raebel MA, Brown J, Lane K, Livingston J, Boudreau D, Rolnick SJ, Roblin D, Smith DH, Dal Pan GJ, Scott PE, Platt R. Outpatient use of cardiovascular drugs during pregnancy. *Pharmacoepidemiol Drug Saf* 2008;17:240-247.

Briesacher BA, Andrade SE, Fouayzi H, Chan KA. Medication adherence across seven medical conditions. *Pharmacotherapy* 2008;28:437-443.

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Newton KM, Buist DSM, Yu O, Hartsfield CL, Andrade SE, Wei F, Connelly MT, Chan KA. Hormone therapy initiation after the Women's Health Initiative. *Menopause* 2008;15:487-493.

Yood RA, Mazor KM, Andrade SE, Emani S, Chan W, Kahler KH. Patient decision to initiate therapy for osteoporosis: the influence of knowledge and beliefs. *J Gen Intern Med* 2008;23:1815-1821.

Andrade SE, McPhillips H, Loren D, Raebel MA, Lane K, Livingston J, Boudreau DM, Smith DH, Davis RL, Willy ME, Platt R. Antidepressant medication use and risk of persistent pulmonary hypertension of the newborn. *Pharmacoepidemiol Drug Saf* 2009;18:246-252.

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Harrold LR, Andrade SE, Briesacher BA, Raebel MA, Fouayzi H, Yood RA, Ockene IS. Adherence with urate-lowering therapies for the treatment of gout. *Arthritis Res Ther* 2009;11:R46.

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Briesacher BA, Andrade SE, Harrold LR, Fouayzi H, Yood RA. Adherence and occurrence of fractures after switching to once-monthly oral bisphosphonates. *Pharmacoepi Drug Saf* 2010;19:1233-1240.

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Davis RL, Eastman D, McPhillips H, Raebel MA, Andrade SE, Smith D, Yood MU, Dublin S, Platt R. Risks of congenital malformations and perinatal events among infants exposed to calcium channel and beta-blockers during pregnancy. *Pharmacoepidemiol Drug Saf* 2011;20:138-45.

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Li D, Yang C, Andrade S, Tavares V. Maternal exposure to angiotensin converting enzyme inhibitors in the first trimester and the risk of malformations in offspring: a retrospective cohort study. *BMJ* 2011;343:d5931.

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Saczynski JS, Andrade SE, Harrold LR, Tjia J, Cutrona SL, Dodd KS, Goldberg RJ, Gurwitz JH A systematic review of validated methods for identifying heart failure using administrative data. *Pharmacoepidemiol Drug Saf* (in press)

Andrade SE, Harrold LR, Tjia J, Cutrona SL, Saczynski JS, Dodd KS, Goldberg RJ, Gurwitz JH. A systematic review of validated methods for identifying cerebrovascular accident or transient ischemic attack using administrative data. *Pharmacoepidemiol Drug Saf* (in press)

Andrade SE, Davis RL, Cheetham TC, Cooper WO, Li D, Amini T, Beaton SJ, Dublin S, Hammad TA, Pawloski PA, Raebel MA, Smith DH, Staffa JA, Toh S, Dashevsky I, Haffenreffer K, Lane K, Platt P, Scott PE. Medication Exposure in Pregnancy Risk Evaluation Program. Matern Child Health J (in press)

Habel LA, Cooper WO, Sox CM, Chan KA, Fireman BH, Arbogast PG, Cheetham TC, Quinn VP, Dublin S, Boudreau DM, Andrade SE, Pawloski PA, Raebel MA, Smith DH, Achacoso N, Uratsu C, Go AS, Sidney S, Nguyen-Huynh MN, Ray WA, Selby JV. ADHD medications and risk of serious cardiovascular events in young and middle-aged adults. *JAMA* 2011 (in press)

Abstracts

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