

## CURRICULUM VITAE

### **SYBIL L. CRAWFORD, PhD.**

Biostatistics Research Group  
Division of Preventive and Behavioral Medicine  
Department of Medicine  
University of Massachusetts Medical School  
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### **EDUCATION**

September 1988	Ph.D. Statistics, Carnegie Mellon University, Pittsburgh, PA
May 1985	M.S. Statistics, Carnegie Mellon University, Pittsburgh, PA
December 1983	B.S. Economics, Carnegie Mellon University, Pittsburgh, PA

### **ACADEMIC APPOINTMENTS**

July 2008 – present	Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, University of Massachusetts Medical School'
July 2009 – present	Professor (adjunct), Graduate School of Nursing, University of Massachusetts Medical School
January 2005 – June 2008	Associate Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, University of Massachusetts Medical School
July 2007 – June 2009	Associate Professor (adjunct), Graduate School of Nursing, University of Massachusetts Medical School
September 2005 – present	Associate Professor (adjunct), Clinical and Population Health Research, Graduate School of Biomedical Sciences, University of Massachusetts Medical School
July 2004 – June 2007	Assistant Professor (adjunct), Graduate School of Nursing, University of Massachusetts Medical School
July 2001 – December 2004	Research Associate Professor, Division of Preventive and Behavioral Medicine, Department of Medicine, University of Massachusetts Medical School
September 1989 - December 1990	Postdoctoral fellow, Harvard School of Public Health, Department of Biostatistics

## NON-ACADEMIC APPOINTMENTS

August 1996 - June 2001	Senior Research Scientist, New England Research Institutes, Watertown, MA
January 1993 – July 1996	Research Scientist, New England Research Institutes
January 1991 – December 1992	Associate Research Scientist, New England Research Institutes
October 1988 – July 1989	Mathematical Statistician, Office of Prices and Living Conditions, Bureau of Labor Statistics, Washington, DC.

## SERVICE

2007 – present	Women’s Faculty Committee member, UMMS; editor of newsletter
2006	Women’s Faculty Committee, Women’s Health subcommittee member, UMMS
2005 – present	Volunteer statistical consultant for Jennifer Kelsey, PhD Division of Preventive and Behavioral Medicine
2005 – present	Volunteer statistical consultant for veterinary fellows and faculty, Department of Clinical Sciences, Cummings School of Veterinary Medicine, Tufts University
2006 – present	Volunteer statistical consultant for Rakhshanda Layeeque Rahman, MD, Department of General Surgery (breast surgeon)
2002 – present	Co-instructor of Faculty Administration-sponsored workshops on Grant Writing in Clinical Research, UMMS

## AWARDS AND HONORS

1996	Young Investigator Award, North American Menopause Society
1996	Presenter in Research Advances session, Fourth Annual Congress on Women’s Health, Washington, DC
1992	Frank Wilcoxon prize (best applications paper in <i>Technometrics</i> )
1984 – 1987	National Science Foundation graduate fellowship
1980 – 1983	Richard King Mellon National Merit 4-year scholarship
1980 – 1981	Andrew Carnegie scholarship, Carnegie Mellon University

## PROFESSIONAL ORGANIZATIONS

American Statistical Association  
International Biometric Society  
North American Menopause Society

## GRANT FUNDING

### Current Grant Support

Project: Study of Women's Health Across the Nation (SWAN), Coordinating Center  
Role on project: PI of subcontract to University of Pittsburgh / statistical co-investigator  
Funding agency: NIA, NINR  
Percent effort: 60%  
Dates: 09/30/1994 – 05/31/2014  
Total award amount: \$511,507

Project: SWAN Repository  
Role on project: PI of subcontract to University of Michigan / statistician  
Funding agency: NIA  
Percent effort: 10%  
Dates: 06/01/2000 – 05/31/2010  
Total award amount: \$82,738

Project: Treating Co-Morbid Obesity and Major Depressive Disorder  
Role on project: Statistician  
Percent effort: 3%  
Funding agency: NIMH  
Dates: 04/19/2007 – 03/31/2012  
Total award amount: \$310,350

Project: Staging Reproductive Aging in Four Cohorts: Issues of Hormone Use, Spotting, Bias  
Role on project: PI of subcontract to University of Michigan / statistician  
Percent effort: 7%  
Funding agency: NIA  
Dates: 11/01/2007 – 02/28/2010  
Total award amount: \$58,753

Project: Dietary and Serum Phytoestrogens and Women's Health Conditions in Midlife  
Role on project: PI of subcontract to University of California Los Angeles / statistician  
Percent effort: 8%  
Funding agency: NIH  
Dates: 04/01-2008 – 03/31/2013  
Total award amount: \$372,258

**Previous Grant Support**

Project: Yoga for Hyperkyphosis Trial  
Role on project: PI of subcontract to University of California Los Angeles / statistician  
Funding agency: NIA  
Dates: 12/1/2004 – 6/30/2009

Project: Estrogen Metabolism, Menopause, and Health Outcomes  
Role on project: PI of subcontract to University of Michigan  
Funding agency: NIA  
Dates: 02/15/2003 – 01/31/2007

Project: Staging Reproductive Aging in Five Cohort Studies  
Role on project: PI of subcontract to University of Michigan / statistician  
Funding agency: NIA  
Dates: 09/30/2003 – 08/31/2005

Project: Injury Free Coalition for Kids: Dissemination of a Model Injury Prevention Program for Children and Adolescents  
Role on project: Statistician  
Funding agency: Robert Wood Johnson Foundation  
Dates: 12/01/2001 – 11/30/2006

Project: Electronic Headache Diary  
Role on project: Statistician  
Funding agency: NINDS  
Dates: 09/30/1999 – 08/31/2003

Project: ProCycle: Electronic Calendar Data Collection Device  
Role on project: Statistician  
Funding agency: NICHD  
Dates: 02/01/1998 – 03/31/2001

Project: Health Effects of Dental Amalgams in Children  
Role on project: PI / Statistician  
Funding agency: NIDCR  
Dates: 09/30/1996 – 07/31/2001

Project: Media Training on Menopause for Health Professionals  
Role on project: Statistician  
Funding agency: NIA  
Dates: 02/05/1995 – 11/30/1995

Project: Breast Cancer in Younger Women – Improving Life Quality  
Role on project: Statistician  
Funding agency: NCI  
Dates: 09/30/1994 – 07/31/1998

Project: Age-Related Decline in Sexual Activity  
Role on project: Statistician  
Funding agency: NIA  
Dates: 01/15/1994 – 12/31/1995

Project: DES: Northeast Education and Outreach  
Role on project: Statistician  
Funding agency: NCI  
Dates: 09/30/1993 – 09/29/1996

Project: Research Center on Applied Gerontology  
Role on project: Statistician  
Funding agency: NIA  
Dates: 09/01/1993 – 08/31/1998

Project: Predictors of Long-Term Care Use – Ethnicity vs. Class  
Role on project: Statistician  
Funding agency: NIA  
Dates: 09/30/1992 – 09/30/1996

Project: Transmenopausal Changes in Sex Hormones and Lipids  
Role on project: Statistician  
Funding agency: NIA  
Dates: 09/30/1992 – 08/31/1996

Project: Risk Factors for Transmenopausal Bone Loss  
Role on project: Statistician  
Funding agency: NIA  
Dates: 09/30/1992 – 08/31/1996

Project: Community AIDS Prevention for Inner City Hispanic Youth  
Role on project: Statistician  
Funding agency: NICHD  
Dates: 09/01/1988 – 11/30/1993

Project: Epidemiology of Menopause  
Role on project: Statistician  
Funding agency: NIA  
Dates: 07/01/1988 – 06/30/1991

Project: Pathways to Health Care for Blacks with CHD  
Role on project: Statistician  
Funding agency: NHLBI  
Dates: 08/01/1987 – 05/31/1991

Project: Pathways to Provision of Care for Frail Older Persons  
Role on project: Statistician  
Funding agency: NIA  
Dates: 07/01/1987 – 06/30/1992

### **Pending Grants**

Project: Human Patient Simulation – Parent Teaching Environment  
Role on project: Statistician  
Percent effort: 5%

Funding agency: NIH  
Dates: 07/01/2009 – 06/30/2013

## **TEACHING AND EDUCATIONAL ACTIVITIES**

### Classes Taught

2004 – present (Summer term)	Advanced Statistical Analysis of Data, Graduate School of Nursing, UMMS
2002 – 2007 (Fall term)	Epidemiology and Biostatistics: Skills for Critical Reading of the Medical Literature, Physician, Patient, and Society Course, small group leader, UMMS

### Supervision and Mentoring

Spring 2009 – present	Member of Thesis Research Advisory Committee (TRAC) for Elena Salmoirago-Blotcher, CPHR PhD student
Fall 2007	Co-supervisor of research rotation for Hamza Awad, PhD student in Clinical and Population Health Research (CPHR), Graduate School of Biomedical Sciences (GSBS)/UMMS
2006 – present	Chair of TRAC for Mary jane Campbell, CPHR PhD student Member of TRAC for Huifang Zhao, CPHR PhD student
2006 – present	Member of MPH thesis committee for Elizabeth Procter-Gray, UMMS MPH student
2005 – present	Adjunct faculty in Clinical and Population Health Research, GSBS/UMMS
2004 – present	Research mentoring of UMMS faculty members: <ul style="list-style-type: none"><li>• Elizabeth Dugan, Geriatrics</li><li>• Benjamin Nwozu, Pediatrics and Endocrinology</li><li>• Janet Hardy, Preventive and Behavioral Medicine &amp; Obstetrics/Gynecology</li><li>• Tiffany Moore Simas, Obstetrics/Gynecology</li></ul>
2004 – present	Supervisor of Graduate School of Nursing (GSN)/UMMS graduate students' independent study: <ul style="list-style-type: none"><li>• Katherine O'Dell</li><li>• Sean Collins</li><li>• Alice Bonner</li><li>• Mary Fischer (co-supervisor with Rosemary Theroux)</li></ul>
2000 – present	Member of doctoral dissertation committee for graduate students in GSN/UMMS, College of Nursing & Health Sciences UMass Boston, and Boston University: <ul style="list-style-type: none"><li>• Karen Bullock, Boston University</li><li>• Anna Yoder, UMass Boston</li><li>• Patricia Poirier, UMass Boston</li></ul>

- Maureen Wassef, GSN/UMMS
- Katherine O'Dell, GSN/UMMS
- Sean Collins, GSN/UMMS
- Alice Bonner, GSN/UMMS
- Sherry Kahn, GSN/UMMS
- Lori Keough, GSN/UMMS
- Annette Konicki, GSN/UMMS
- Barbara Weatherford, GSN/UMMS

### Seminars and Presentations

- March 2008                      Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, guest lecturer for Workshop in Cardiovascular Epidemiology: Sample size calculations for linear regression and repeated measures analysis
- November 2006                Division of Preventive and Behavioral Medicine's research seminar: Changes in cardiovascular risk factors during the menopause transition: Study of Women's Health Across the Nation (SWAN)
- June 2006                      Graduate School of Nursing, UMMS, guest lecturer, Contemporary Issues in Women's Health class (N/NG691): Menopause and Health
- May 2006                      Presentation to study participants in the Study of Women's Health Across the Nation, Boston site: Hot flashes
- June 1996                      Society for Epidemiologic Research, 29<sup>th</sup> annual meeting, Boston, MA: workshop on Methods in Conducting Research in Women's Health

### **ADDITIONAL PROFESSIONAL ACTIVITIES**

**Member of journal Editorial Board:**  
Menopause (as of October 2007)

**Peer reviewer for the following journals:**

American Journal of Critical Care  
American Journal of Epidemiology  
American Journal of Public Health  
Annals of Epidemiology  
Circulation  
Diabetic Medicine  
Environmental Science & Technology  
Journal of the American Statistical Association  
Journal of Clinical Endocrinology and Metabolism  
Journal of Clinical Epidemiology  
Journal of Health and Social Behavior  
Journal of Statistical Computation and Simulation  
Journal of Women's Health  
Maturitas  
Menopause

Obstetrics & Gynecology  
Obstetrics and Gynecology International  
Psychophysiology  
Social Science and Medicine  
Statistics in Medicine  
Women & Health

**Abstract reviewer for the following scientific organizations/meetings:**

Congress of Epidemiology  
North American Menopause Society

**NIH ad hoc grant proposal reviewer:**

National Institute of Dental and Craniofacial Research, 2000 – 2001  
National Heart, Lung, and Blood Institute, 1993 – 1999

**Service on following Data and Safety Monitoring Boards:**

Chair, SMB, Harvard Research Nursing Home (program project studying falls in elders),  
2005 – present

Member, DSMB, Acupuncture Treatment and Menopausal Hot Flashes study, Wake Forest  
University Medical School, 2004 – 2005

Member, DSMB, Phase I/II clinical trial of a new local anesthetic combination treatment in  
healthy volunteers, Children's Hospital, Harvard Medical School, 2009 - present

**Professional Committee membership:**

Committee on Law and Justice Statistics, American Statistical Association, 1990 – 1995

Advisory Board, Department of Statistics, Carnegie Mellon University, 1992 – 1995

**INVITED (PEER-REVIEWED) PUBLICATIONS**

**Crawford SL.** The roles of biologic and non-biologic factors in cultural differences in vasomotor reporting measured by surveys. *Menopause* 2007;14(4):725-733.

**Crawford SL.** Correlation and regression. *Circulation* 2006;114:2083-2088.

**PEER-REVIEWED PUBLICATIONS (average journal impact factor = 3.6; min / max = 0.7 / 13.6)**

Maynard SE, Moore Simas TA, Bur L, **Crawford SL**, Solitro MJ, Meyer BA. Soluble endoglin for the prediction of preeclampsia in high-risk women. In press, *Hypertension in Pregnancy*.

Taffe J, Cain K, Harlow S, Mitchell ES, Woods NF, **Crawford S.** Persistence improves the 60 days amenorrhea marker of entry to late stage menopausal transition for women aged 40-44. *Menopause* 2010;17(1):191-193.

Crandall CJ, Sehl ME, **Crawford SL**, Gold EB, Habel LA, Butler LM, Sowers MF, Greendale GA, Sinsheimer JS. Sex steroid metabolism polymorphisms and mammographic density in pre- and early peri-menopausal women. *Breast Cancer Research* 2009;11(4):R51.

Crandall CJ, **Crawford SL**, Thurston RC, Gold EB, Johnston JM, Greendale GA. Presence of vasomotor symptoms is associated with lower bone mineral density: a longitudinal analysis. *Menopause* 2009;16(2):239-46.

**Crawford SL**, Santoro N, Laughlin GA, Sowers MF, McConnell D, Sutton-Tyrrell K, Weiss G, Vuga M, Randolph J, Lasley B. Circulating dehydroepiandrosterone sulfate concentrations during the menopausal transition. *Journal of Clinical Endocrinology and Metabolism* 2009;94(8):2945-51.

Danhauer SC, **Crawford SL**, Farmer DF, Avis NE. A longitudinal investigation of coping strategies and quality of life among younger women with breast cancer. *Journal of Behavioral Medicine* 2009;32(4):371-379.

Derby CA, **Crawford SL**, Pasternak RC, Sowers MF, Sternfeld B, Matthews KA. Change in lipids during the menopause transition in relation to age and weight: The Study of Women's Health Across the Nation (SWAN). *American Journal of Epidemiology* 2009;169(11):1352-61.

Greendale GA, Huang MH, Karlamangla AS, Seeger L, **Crawford S**. Yoga decreases kyphosis in senior women and men with adult onset hyperkyphosis: results of a randomized controlled trial. *Journal of American Geriatrics Society* 2009;57(9):1569-79.

Haney SM, Beaver L, Turrel J, Clifford CA, Klein MK, **Crawford S**, Poulson JM, Azuma C. A survival analysis for nasal lymphoma in 97 cats: A multi-institutional retrospective study (1986-2006). *Journal of Veterinary Internal Medicine* 2009;23(2):287-94.

Layeequr Rahman R, **Crawford SL**. Chemoprophylaxis Indication Score - a User friendly Tool for Prevention of Breast Cancer: A Validation Study. *The Breast* 2009;18(5):289-93.

Matthews KA, **Crawford SL**, Chae CU, Everson-Rose S, Sowers MF, Sternfeld B, Sutton-Tyrrell K. Are changes in cardiovascular disease risk factors in midlife women due to chronological aging or to the menopausal transition? *Journal of the American College of Cardiology* 2009;54(25):2366-73.

Skurnick JH, Weiss G, Goldsmith LT, Santoro N, **Crawford S**. Longitudinal changes in menstrual cycle dynamics and occurrence of vasomotor symptoms in initially perimenopausal anovulatory women. *Fertility and Sterility* 2009;91(4):1127-34.

Whelan MF, O'Toole TE, Chan D, Rozanski EA, deLeforcade A, **Crawford S**, Cotter SM. Randomized, blinded, placebo-controlled trial of human intravenous immunoglobulin for canine immune-mediated hemolytic anemia. *Journal of Veterinary Emergency Critical Care* 2009;19(2):158-64.

Avis NE, **Crawford SL**. Cultural differences in symptoms and attitudes towards menopause. *Menopause Management*. 2008;17(3):8-13.

**Crawford SL**, Avis NE, Gold EB, Johnston JM, Kelsey JL, Santoro N, Sowers MF, Sternfeld B. Sensitivity and specificity of recalled vasomotor symptoms in a multi-ethnic cohort. *American Journal of Epidemiology*. 2008;168(12):1452-9.

Harlow SD, Mitchell ES, Cain K, **Crawford S**, Dennerstein L, Little R, Nan B, Randolph J, Taffe J, Yosef M. The ReSTAGE collaboration: Defining optimal bleeding criteria for onset of the early menopausal transition. *Fertility and Sterility* 2008;89(1):129-40.

Janssen I, Powell LH, **Crawford S**, Lasley B, Sutton-Tyrrell K. Testosterone predicts the metabolic syndrome in women undergoing the menopausal transition: the Study of Women's Health Across the Nation. *Archives of Internal Medicine* 2008;168(14):1568-75.

Maynard SE, Moore Simas TA, Solitro MJ, Rajan A, **Crawford S**, Soderland P, Meyer B. Circulating angiogenic factors in singleton vs. multiple gestation pregnancies. *American Journal of Obstetrics and Gynecology*. 2008;198(2):200.e.1-7.

Procter-Gray E, Cobb KL, **Crawford SL**, Bachrach LA, Chirra A, Sowers MF, Greendale GA, Nieves J, Kent KK, Kelsey JL. The effect of oral contraceptives on body weight and body composition in young female runners. *Medicine & Science in Sports & Exercise* 2008;40(7):1205-12.

Santoro N, **Crawford SL**, Lasley BL, Luborsky J, McConnell D, Gold EB, Greendale GA, Korenman SJ, Sowers MF. Factors related to declining luteal function in women during the menopausal transition: SWAN, the Study of Women's Health Across the Nation. *Journal of Clinical Endocrinology and Metabolism* 2008;93(5):1711-21.

Schneider KL, Bodenlos JS, Ma Y, Olendzki B, Oleski J, Merriam P, **Crawford S**, Ockene IS, Pagoto SL. Design and methods for a randomized clinical trial for co-morbid obesity and major depressive disorder. *BMC Psychiatry* 2008;8:77 (doi:10.1186/1471-244X-8-77).

Sowers MF, McConnell D, Kitzsteiner S, Jannausch ML, Randolph Jr, JR, Gold EB, **Crawford S**, Lasley B. Oestrogen metabolites in relation to isoprostanes as a measure of oxidative stress. *Clinical Endocrinology* 2008;68(5):806-13.

VanVoorhis B, Santoro N, Harlow S, **Crawford SL**, Randolph J Jr. The relationship of bleeding patterns to daily reproductive hormones in women approaching menopause. *Obstetrics and Gynecology* 2008;112(1):101-8.

Gold EB, Lasley B, **Crawford SL**, McConnell D, Joffe H, Greendale GA. Relation of daily urinary hormone patterns to vasomotor symptoms in a multi-ethnic sample of midlife women: Study of Women's Health Across the Nation (SWAN) Daily Hormone Study (DHS). *Reproductive Sciences* 2007;14:786-97.

Harlow SD, **Crawford S**, Dennerstein L, Burger HG, Mitchell ES, Sowers MF; ReSTAGE Collaboration. Recommendations from a multi-study evaluation of proposed criteria for staging reproductive aging. *Climacteric* 2007;10(2):112-9.

Howland LC, Storm DS, **Crawford SL**, Ma Y, Gortmaker SL. Negative Life Events: Risk to Health-Related Quality of Life in Children and Youth with HIV Infection. *Journal of the Association of Nurses in HIV Care* 2007;18(1):3-11.

Kelsey JL, Bachrach LK, Procter-Gray E, Nieves J, Greendale GA, Sowers MF, Brown WB, Jr, Matheson KA, **Crawford SL**, Cobb KL. Risk factors for stress fracture among young female cross-country runners. *Medicine & Science in Sports & Exercise* 2007;39:1457-63.

Manuel J, Burwell SR, **Crawford SL**, Lawrence RH, Farmer DF, Hege A, Phillips K, Avis NE. Younger women's perceptions of coping with breast cancer. *Cancer Nursing* 2007;30(2):85-94.

Meyer PM, Zeger SL, Harlow SD, Sowers MF, **Crawford SL**, Luborsky JL, Janssen I, McConnell DS, Randolph JF, Weiss G. Characterizing modes of variation of daily urinary hormone profiles for women at mid-life using functional data analysis. *American Journal of Epidemiology* 2007;165(8):936-45.

Moore Simas TA, **Crawford SL**, Solitro MJ, Frost SC, Meyer BA, Maynard SE. Angiogenic factors for the prediction of preeclampsia in high risk women. *American Journal of Obstetrics and Gynecology* 2007;197(3):244.e.1-8.

O'Dell KK, Morse AN, **Crawford SL**, Howard A. Vaginal pressure during lifting, floor exercises, jogging, and use of hydraulic exercise machines. *International Urogynecology Journal* 2007;18:1481-9.

Rahman LR, **Crawford S**, Larkin A, Quinlan R. Superiority of sonographic hematoma guided resection of mammogram only visible breast cancer: wire localization should be an exception – not the rule. *Annals of Surgical Oncology* 2007;14(8):2228-2232.

Rahman LR, Iuanow E, **Crawford S**, Quinlan R. Sonographic hematoma-guided vs wire-localized lumpectomy for breast cancer. *Archives of Surgery* 2007;142:343-346.

Santoro N, Brockwell S, Johnston J, **Crawford SL**, Gold EB, Harlow SD, Matthews KA, Sutton-Tyrrell K. Helping women predict the onset of their final menses – SWAN, the Study of Women's Health Across the Nation. *Menopause* 2007;14(3):415-24.

Tomey K, Sowers MFR, Li X, McConnell DS, **Crawford S**, Gold EB, Lasley B, Randolph JF Jr. Dietary fat subgroups, zinc, and vegetable components are related to urine F2a-isoprostane concentration, a measure of oxidative stress, in midlife women. *Journal of Nutrition* 2007;137:2412-19

Carmody J, **Crawford S**, Churchill L. A pilot study of the feasibility of mindfulness-based stress reduction for hot flashes. *Menopause* 2006;13(5):760-9.

Crandall CJ, **Crawford SL**, Gold EB. Vasomotor symptom prevalence is determined by polymorphisms in sex steroid-metabolizing enzymes and receptors. *American Journal of Medicine* 2006;119(9 Suppl 1):S52-S60.

Harlow SD, Cain K, **Crawford S**, Dennerstein L, Little R, Mitchell ES, Nan B, Randolph J, Taffe J, Yosef M. Evaluation of four proposed bleeding criteria for the onset of late menopausal transition. *Journal of Clinical Endocrinology and Metabolism* 2006;91(9):3432-8.

Hsia J, Langer RD, Manson JE, Kuller L, Johnson KC, Hendrix SL, Pettinger M, Heckbert SR, Greep N, **Crawford S**, Eaton CB, Kostis JB, Caralis P, Prentice R. Conjugated equine estrogens and the risk of coronary heart disease. *Archives of Internal Medicine* 2006;166(3):357-65.

Ma Y, Olendzki BC, Chiriboga D, Rosal MC, Sinagra E, **Crawford S**, Hafner AR, Pagoto SL, Magner RP, and Ockene IS. PDA-assisted low glycemic index dietary intervention for Type 2 diabetes: A pilot study. *European Journal of Clinical Nutrition* 2006;60(10):1235-43.

Matthews KA, Santoro N, Lasley B, Chang Y, **Crawford S**, Pasternak RC, Sutton-Tyrrell K, Sowers MF. Relation of cardiovascular risk factors in women approaching menopause to menstrual cycle characteristics and productive hormones in the follicular and luteal phases. *Journal of Clinical Endocrinology and Metabolism* 2006;91(5):1789-1795.

Puglia GD, Freeman LM, Rush JE, King RGP, **Crawford SL**. Use of a flow-mediated vasodilation technique to assess endothelial function in dogs. *American Journal of Veterinary Research* 2006;67(9):1533-1540.

Randolph J, **Crawford S**, Dennerstein L, Cain K, Harlow SD, Little R, Mitchell ES, Nan B, Taffe J, Yosef M. The ReSTAGE project: The value of annual serum follicle-stimulating hormone concentration as a marker of the late menopausal transition in conjunction with bleeding characteristics and hot flashes. *Journal of Clinical Endocrinology and Metabolism* 2006;91(8):3034-3040.

Sowers MFR, Wilkin MK, **Crawford S**, McConnell DS, Randolph JF Jr, Gold EB, Lasley B. Selected diet and lifestyle factors are associated with estrogen metabolites in a multi-racial population of women. *The Journal of Nutrition* 2006;136:1588-1595.

Avis NE, **Crawford S**, Manuel J. Quality of life among younger women with breast cancer. *Journal of Clinical Oncology* 2005;23:3322-3330.

Matthews K, Sowers MF, Derby C, Stein E, Miracle-McMahill H, **Crawford S**. Ethnic differences in cardiovascular risk factor burden among middle-aged women: Study of Women's Health Across the Nation. *American Heart Journal* 2005;149(6):1066-73.

Santoro N, Torrens J, **Crawford S**, Allsworth JE, Finkelstein JS, Gold EB, Korenman S, Lasley BL, Luborsky JM, Sowers MF, Weiss G. Correlates of androgen production in mid-life women: the Study of Women's Health Across the Nation (SWAN). *Journal of Clinical Endocrinology and Metabolism* 2005; 90(8):4836-45.

Avis NE, **Crawford S**, Manuel J. Psychosocial problems among younger women with breast cancer. *Psycho-Oncology* 2004;13:295-308.

Gold EB, Block G, **Crawford S**, LaChance L, FitzGerald G, Miracle-McMahill H, Sherman S. Diet and smoking in relation to physical menopausal symptoms: baseline results from the Study of Women's Health Across the Nation. *American Journal of Epidemiology* 2004;159:1189-99.

Santoro N, Lasley B, McConnell D, Allsworth J, **Crawford S**, Gold EB, Finkelstein JS, Greendale GA, Kelsey J, Korenman S, Luborsky JL, Matthews K, Midgley R, Powell L, Sabatine J, Schocken M, Sowers MF, Weiss G. Body size and ethnicity are associated with menstrual cycle alterations in women in the early menopausal transition: The Study of Women's Health Across the Nation (SWAN) Daily Hormone Study. *Journal of Clinical Endocrinology and Metabolism* 2004;89(6):2622-31.

Bullock K, **Crawford SL**, Tennstedt SL. Caregiving and employment: an exploration of African-American caregivers. *Social Work* 2003;48(2):147-162.

Davidson SM, Davidson H, Miracle-McMahill H, Oakes JM, **Crawford S**, Blumenthal D, Valentine DP. Utilization of services by chronically ill people in managed care and indemnity plans: implications for quality. *Inquiry* 2003;40(1):57-70.

Santoro N, **Crawford SL**, Allsworth JE, Gold EB, Greendale GA, Korenman S, Lasley BL, McConnell D, McGaffigan P, Midgely R, Schocken M, Sowers M, Weiss G. Assessing menstrual cycles using urinary hormone assays. *American Journal of Physiology – Endocrinology and Metabolism* 2003;284(3):E521-30.

Sowers MF, **Crawford S**, Cauley J, Stein E. Lp(a), insulin and androgenism in pre- and perimenopausal women from five race/ethnic groups: the SWAN Study. *American Journal of Cardiology* 2003;92:533-7.

Stafford RS, Davidson S, Davidson H, Miracle-McMahill H, **Crawford S**, Blumenthal D. Chronic disease medication use in managed care and indemnity insurance plans. *Health Services Research Journal* 2003;38(2):595-612.

**Crawford SL**, Johannes CB, Stellato RK. Assessment of digit preference in self-reported year at menopause: choice of an appropriate reference distribution. *American Journal of Epidemiology* 2002;156(7):676-83.

Frayne SM, **Crawford SL**, McGraw SA, Smith KW, McKinlay JB. Help-seeking behaviors of blacks and whites dying from coronary heart disease. *Ethnicity and Disease* 2002;7(2):77-86.

Gemmel A, Tavares M, Alperin S, Soncini J, Daniel D, Dunn J, **Crawford S**, Braveman N, Clarkson TW, McKinlay S, Bellinger DC. Blood lead level and dental caries in school-age children. *Environmental Health Perspectives* 2002;110(10):A625-30.

Lasley BL, Santoro N, Gold EB, Sowers MF, **Crawford S**, Weiss G, McConnell DM, Randolph JF. The relationship of circulating dehydroepiandrosterone, testosterone and estradiol to stages of the menopausal transition and ethnicity. *Journal of Clinical Endocrinology and Metabolism* 2002;87(8):3760-7.

Avis NE, **Crawford S**, Stellato R, Longcope C. A longitudinal study of hormone levels and depression among women transitioning through menopause. *Climacteric* 2001;4(3):243-9.

Avis NE, Stellato R, **Crawford S**, Bromberger J, Ganz P, Kagawa-Singer M, Cain V. Is there a menopausal syndrome? Menopause status and symptoms across ethnic groups. *Social Science and Medicine* 2001;52:345-356.

Gold EB, Bromberger J, **Crawford S**, Samuels S, Greendale GA, Harlow SD, Skurnick J, Neer R, Sherman S. Factors associated with age at natural menopause in a multi-ethnic sample of midlife women. *American Journal of Epidemiology* 2001;153(9):865-74.

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## MANUSCRIPTS UNDER PEER REVIEW

Dugan E, **Crawford S**, Emani S, Garber L, Yood R. Clinic team performance influences patient trust in a physician. Submitted to *Journal of General Internal Medicine*.

Kelsey JL, Procter-Gray E, **Crawford SL**, Bachrach LK, Greendale GA, Sowers M, Nieves J, Brown, Jr BW, Cobb KL. Changes in body composition and weight in young female cross-country runners. Under review by *Clinical Journal of Sports Medicine*.

Sowers MF, McConnell D, Lasley B, Jannausch M, Jackson E, **Crawford S**, Randolph Jr JR. Endogenous estrogens and androgens with lipids during the menopause transition. Under review by *Arch Int Med*.

## ABSTRACTS

### Invited Oral Presentations:

**Crawford SL**. Racial/ethnic differences in self-assessed health and its associations with objective indicators of health. Presented at Conference on Comparable Measurement of Functional Health, Institute for Health Metrics and Evaluation, Seattle, Washington, May 29-30, 2008.

**Crawford SL**. Measuring hot flashes through surveys in different ethnicities / cultures. Presented at workshop on Cross-cultural Comparisons of Midlife, Aging, and Menopause (NIH-sponsored workshop), Cambridge, Massachusetts, May 10-12, 2006.

**Crawford SL**. Methodological issues in using menstrual and endocrine data: race / ethnicity / statistical concerns. Presented at the Staging of Reproductive Aging Workshop, Park City, Utah, July 22-24, 2001.

**Crawford SL**, Johnson WG, Laird NM. Bayes analysis of model-based methods for nonignorable nonresponse: Harvard Medical Practice Survey. Presented at 1st Workshop on Bayesian Statistics in Science and Technology: Case Studies, Pittsburgh, October 1991.

### Oral Presentations at National and International Meetings:

Matthews KA, **Crawford SL**, Chae CU, Everson-Rose S, Sowers MF, Sternfeld B, Sutton-Tyrrell K. Are changes in cardiovascular disease risk factors in midlife women due to chronological aging or to the menopausal transition? Oral presentation at the 20<sup>th</sup> Annual Meeting of the North American Menopause Society, San Diego, September 30-October 3, 2009.

Franklin P, **Crawford S**, Zanetti M, Ockene J. Transforming organizational data to assess retention of diverse faculty. Oral presentation, 5<sup>th</sup> Annual AAMC Physician Workforce Research Conference, Washington, DC, April 30-May 1, 2009.

Hardy JR, **Crawford SL**, Moore-Simas TA, Pagoto S, Thacker N. Discontinuation of antidepressant medication in pregnancy and postpartum suicide risk: A population-based cohort of 81,975 women. Oral presentation, 40th Annual Meeting of the Society for Epidemiologic Research, Boston, June 19-22, 2007.

Janssen I, Powell LH, **Crawford S**, Lasley B, Sutton-Tyrrell K. Development of the metabolic syndrome through menopause: the Study of Women's Health Across the Nation (SWAN). Oral presentation, American Heart Association's 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Orlando, FL, Feb 28 - Mar 3, 2007.

Danhauer S, Farmer DF, **Crawford SL**, Avis NE. A longitudinal investigation of coping and quality of life in younger women with breast cancer. Oral presentation at the annual meeting of the American Psychosocial Oncology Society, Amelia Island, FL, February 2006.

Hardy J, Adams J, **Crawford SL**, Kelsey JL. Maternal valproate in pregnancy & risk of childhood language disorders. Oral presentation at the annual meeting of the Neurobehavioral Teratology Society, Tucson, AZ, June 24-29, 2006.

Layeeque R, **Crawford S**, et al. Comparison of breast surgeries. Oral presentation at the 87th annual meeting of the New England Surgical Society, Groton, CT, Sept. 15-7, 2006.

Howland LC, **Crawford SL**, Storm D, Gendreau, K, Oleske JM. Relationship of negative life events to increased behavior problems in children with HIV infection: A longitudinal analysis. Region I Annual Meeting, Ambulatory Pediatric Association, Sturbridge, MA, April 8, 2005.

Santoro N, Torrens J, **Crawford S**, Allsworth JE, Finkelstein JS, Gold EB, Korenman S, Lasley BL, Luborsky JL, McConnell D, Sowers MF, Weiss G. Correlates of circulating androgens in mid-life women: the Study of Women's Health Across the Nation (SWAN). Presented at the Society for Gynecologic Investigation 52nd Annual Scientific Meeting, Los Angeles, CA, March 23-26, 2005.

Howland LC, **Crawford SL**, Storm D, Ma Y, Oleske JM. Factors affecting change in quality of life in children with HIV infection: A random effects model approach. Invited oral presentation, Eastern Society for Pediatric Research, March 27, 2004, Old Greenwich, CT.

**Crawford SL** for the SWAN Research Group. Study of Women's Health Across the Nation: overview of study design. Presented at the 51st Annual Meeting of the Gerontological Society of America, Philadelphia, Nov. 20-24, 1998.

**Crawford SL** for the SWAN Research Group. Study of Women's Health Across the Nation: overview of study design. Presented at the 50th Annual Meeting of the Gerontological Society of America, Cincinnati, Nov. 14-18, 1997.

**Crawford SL**, Johannes CB, Bradsher JE, McKinlay SM. Precursors of surgical menopause. Presented at the International Interdisciplinary Conference on Women & Health: Realizing a Gender-Sensitive Health Care, Amsterdam, Netherlands, June 25-27, 1997.

**Crawford SL**, Johannes CB, Stellato RK, McKinlay SM. The relationship between dehydroepiandrosterone sulfate (DHEAS), bone mineral density (BMD), and menopause status.

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**Crawford SL**, Casey VA, Avis NE, McKinlay SM. The relative roles of behavioral factors and menopause in weight gain. Presented at the American Psychological Association Conference on Psychosocial and Behavioral Factors in Women's Health: Research, Prevention, Treatment, and Service Delivery in Clinical and Community Settings, Washington, DC, Sept. 19-21, 1996.

**Crawford SL**, Casey VA, Avis NE, McKinlay SM. The relative roles of behavioral factors and menopause in weight gain. Presented at the Annual Meeting of the North American Menopause Society, Chicago, Sept. 26-28, 1996.

**Crawford SL**, McKinlay SM. The relative importance of hormone replacement therapy in bone mineral density levels. Presented at the 4th Annual Congress on Women's Health, Washington, DC, June 18-19, 1996.

**Crawford SL**, Jette AM, Tennstedt SL. Test-retest reliability over time of disability measures in elders. Presented at the Annual Meeting of the Gerontological Society of America, Los Angeles, Nov. 15-19, 1995.

**Crawford SL**, McKinlay JB, McKinlay SM. Is the midlife increase in coronary heart disease in women attributable to menopause or normal aging? Presented at the Annual Meeting of the American Public Health Association, Epidemiology Section, San Diego, October 29-November 2, 1995.

**Crawford SL**, McKinlay JB, Tennstedt SL. The advantages of longitudinal versus cross-sectional data: a case study. Presented at the Annual Meeting of the Gerontological Society of America, Atlanta, Nov. 18-22, 1994.

**Crawford SL**, Tennstedt SL, McKinlay JB. A comparison of missing-data methods when missingness is non-random. Presented at the Annual Meeting of the Gerontological Society of America, New Orleans, Nov. 19-23, 1993.

**Crawford SL**, Tennstedt SL, McKinlay JB. Substitution of formal for informal care in the elderly. Presented at the 1993 American Statistical Association Winter Conference, Fort Lauderdale, January 1993.

#### **Poster Presentations at National and International Meetings:**

**Crawford SL**, Santoro N, Laughlin GA, Sowers MF, McConnell D, Sutton-Tyrrell K, Weiss G, Vuga M, Lasley BL. An inflection of circulating DHEAS is related to ovarian status during the menopausal transition. Poster presentation at the Endocrine Society's annual meeting, Washington, DC, June 10-13, 2009.

Bur L, Moore Simas T, **Crawford S**, Solitro M, Meyer B, Maynard SE. Soluble endoglin for the prediction of preeclampsia in high-risk women. Presented at the 41<sup>st</sup> American Society of Nephrology Meeting, Philadelphia, Nov 4-9, 2008.

Crandall CJ, Zheng Y, **Crawford S**, Gold E, Thurston R, Greendale GA. Vasomotor symptoms predict lower bone mineral density: a longitudinal analyses. Presented at the 28<sup>th</sup> annual meeting of the American Society for Bone and Mineral Research, Honolulu, Sept 16-20, 2007.

Dodd K, Edmiston K, **Crawford S**, Larkin A, Hay B, Douglas J, Loik-Ramey V, Dugan E. A pilot study to examine the characteristics of women seeking care at a comprehensive cancer center's high-risk clinic. Presented at the 13th Annual HMO Research Network Conference, Portland, OR, March 21, 2007.

Dugan E, Larkin A, **Crawford S**, Hay B, Douglas J, Loik-Ramey V, Dodd K, Edmiston K. A pilot study to examine patient trust in women seeking care at a comprehensive cancer center's high-risk clinic. Presented at the 13th Annual HMO Research Network Conference, Portland, OR, March 21, 2007.

Frost S, Moore Simas TA, Solitro M, **Crawford S**, Maynard SE. Circulating soluble FMS-like tyrosine kinase 1 (sFlt1) is increased in primiparis versus multiparas. Presented at 27th annual scientific meeting of Society for Maternal- Fetal Medicine. San Francisco, Feb 5-10, 2007.

Schilling LS, Bova C, Sullivan-Bolyai S, **Crawford S**. An approach to enhancing faculty dissertation advising skills. Presented at AACN 2007 Doctoral Education Conference, Captiva Island, FL, Jan. 24-27, 2007.

Gold EB, Lasley B, **Crawford SL**, McConnell D, Joffe H, Greendale GA. Hormone patterns and vasomotor symptoms in a multi-ethnic cohort: Study of Women's Health Across the Nation (SWAN). Presented at 2<sup>nd</sup> annual meeting of North American Congress of Epidemiology, Seattle, June 21-24, 2006.

Harlow SD, Cain K, **Crawford S**, Dennerstein L, Little R, Mitchell ES, Nan B, Randolph J, Taffe J, Yosef M. The ReSTAGE project: evaluating bleeding criteria for staging reproductive aging in four cohorts. Presented at 2nd annual meeting of North American Congress of Epidemiology, Seattle, June 21-24, 2006.

O'Dell KK, Morse AN, **Crawford S**, Bova C. Vaginal Pressure During Lifting, Floor Exercises, Jogging, and Use of Hydraulic Exercise Machines Compared to Cough Pressure. Presented at the annual meeting of the American Urogynecologic Society, Palm Springs, CA, Oct 19-21, 2006.

Santoro N, **Crawford SL**. Increased body size, prior menstrual irregularity and Hispanic ethnicity are associated with decreased luteal function in women traversing the menopause. Presented at 88th annual meeting of the Endocrine Society, Boston, June 24-27, 2006.

Dugan E, **Crawford S**, Hay B, Douglas J, Blazejewski L, Dodd K. Genetic worries of bladder cancer survivors. Presented at annual meeting of the Gerontological Society of America, Orlando, FL, Nov. 2005.

Howland LC, **Crawford SL**, Gendreau K, Gortmaker SL, Oleske JM. Negative life events: associations with low quality of life and increased health care utilization among children 5-21 years with HIV infection. Presented at 133rd Annual Meeting & Exposition of American Public Health Association, Philadelphia, Dec. 10-14, 2005.

Janssen I, Powell LH, **Crawford S**. Menopause related patterns of change in androgen excess and cardiovascular risk factors. Presented at American Heart Association, 4<sup>th</sup> Annual

Conference on Cardiovascular Disease Epidemiology and Prevention in association with the Council on Nutrition, Physical Activity, and Metabolism, Washington, DC, April 29-May 2, 2005.

Rajan A, Soderland P, Abare N, Nadkarni S, Saffari R, Frost S, **Crawford S**, Maynard S. Maternal serum slft-1 is a sensitive and specific screening test for preterm preeclampsia in high-risk women. Presented at American Society of Nephrology meeting, Philadelphia, August 2005.

**Crawford S**, Avis N, Kelsey J, Gold E, Santoro N. Is annual measurement of hot flashes sufficiently frequent in perimenopause? Presented at the Annual Meeting of the North American Menopause Society, Washington, DC, October 2004.

Howland LC, **Crawford SL**, Storm D, Ma Y, Oleske JM. Factors affecting change in quality of life in children with HIV infection: A random effects model approach. Invited poster, presented at Pediatric Academic Societies' Annual Meeting, San Francisco, May 2, 2004.

Howland LC, **Crawford SL**, Storm D, Ma Y, Oleske JM. Change in prevalence of stressful life events and sociodemographic factors in children with HIV infection between 1993 and 2000. Invited poster, 16<sup>th</sup> Annual Scientific Sessions of the Eastern Nursing Research Society, Quincy, MA, April 2, 2004.

Howland LC, Storm D, **Crawford SL**, Ma Y, Bova C, Boland MG. Sociodemographic and stress-related factors associated with quality of life in children and youth with human immunodeficiency virus infection. Invited poster, 15<sup>th</sup> Annual Scientific Sessions of the Eastern Nursing Research Society, New Haven, CT, March 27-29, 2003.

**Crawford SL**, Johannes CB, Miracle-McMahill H, Derby C. Sex hormone binding globulin, estrogen, and blood pressure and lipids in mid-aged women. Presented at the Annual Meeting of the North American Menopause Society, New Orleans, Oct. 4-6, 2001.

**Crawford SL**, Harlow S, Gold E, Bromberger J, Lasley B, Luborsky J, Weiss G. Hormones and concurrent menstrual characteristics in early perimenopause. Presented at the Congress of Epidemiology, Toronto, June 13-16, 2001.

**Crawford SL**, Harlow S, Gold E, Bromberger J, Lasley B, Luborsky J, Weiss G. Hormones and concurrent menstrual characteristics in early perimenopause. Presented at the 4<sup>th</sup> International Symposium on Women's Health and Menopause, Washington, DC, May 19-23, 2001.

**Crawford SL**, Johannes CB, Bradsher J, Stellato RK, Sherman S, Samuels S. Digit preference in year at menopause: data from the Study of Women's Health Across the Nation. Presented at the Annual Scientific Session of the American College of Epidemiology, Atlanta, Sept. 24-26, 2000.

**Crawford S**, Johannes C, Sherman S, Samuels S. Digit preference in self-reported year at menopause. Presented at the 11<sup>th</sup> Annual Meeting of the North American Menopause Society, Orlando, FL, Sept. 7-9, 2000.

Johannes CB, Woods J, **Crawford S**, Cochran H, Tran D, Schuth B. Electronic versus paper instruments for daily data collection. Presented at the Annual Scientific Session of the American College of Epidemiology, Atlanta, Sept. 24-26, 2000.

**Crawford SL**, Johannes C, Avis N for the SWAN Research Group. Study of Women's Health Across the Nation (SWAN): overview of study design. Presented at the 10<sup>th</sup> Annual Meeting of the North American Menopause Society, New York, Sept. 23-25, 1999.

**Crawford SL**, Johannes CB, McKinlay SM. Estrogen status versus androgenicity in cardiovascular disease risk factors in mid-aged women. Presented at the American Heart Association's 39<sup>th</sup> Annual Conference on Cardiovascular Disease Epidemiology and Prevention, Orlando, Mar. 24-27, 1999.

**Crawford SL**, McKinlay SM, McKinlay JB. Menopause versus normal aging in cardiovascular disease risk in mid-aged women. Presented at the 15<sup>th</sup> International Scientific Meeting of the International Epidemiological Association, Florence, Italy, Aug. 31-Sept. 4, 1999.

**Crawford S**, Harlow S, Greendale G, Sommer B. Determinants of self-defined menopause status. Presented at the Annual Meeting of the North American Menopause Society, Toronto, Sept. 16-20, 1998.

**Crawford SL**, Johannes CB, McKinlay SM. Sex hormone binding globulin, estrogen, and cardiovascular disease risk in mid-aged women. Presented at the 51<sup>st</sup> Annual Meeting of the Gerontological Society of America, Philadelphia, Nov. 20-24, 1998.

**Crawford SL**, Johannes CB, Bradsher JE, McKinlay SM, Harrow BS. General health care use as a precursor of hysterectomy. Presented at the 14th Annual Meeting of the Association for Health Services Research, Chicago, June 15-17, 1997.

**Crawford SL**, Johannes CB, McKinlay SM. The relationship between menopause status, alcohol, and lipids. Presented at the 4th International Conference on Preventive Cardiology, Montreal, Canada, June 29-July 3, 1997, and at the 8th Annual Meeting of the North American Menopause Society, Boston, Sept. 4-6, 1997.

**Crawford SL**, McKinlay SM, Neer R. Imputation methods to handle changes in bone densitometers. Presented at the Annual Scientific Session of the American College of Epidemiology, Boston, Sept. 21-23, 1997.

**Crawford SL**, Johannes CB, Stellato RK, McKinlay SM. The relationship between DHEAS, bone mineral density, and menopause status. Presented at the Annual Meeting of the Gerontological Society of America, Washington, DC, Nov. 17-21, 1996.

**Crawford SL**, McKinlay SM, Johannes CB. A validation of self-reported date of last menstrual period using menstrual calendars. Presented at the Annual Meeting of the North American Menopause Society, San Francisco, Sept. 21-23, 1995.

**Crawford SL**, McKinlay SM, Johannes CB. The relative importance of hormone replacement therapy in cardiovascular disease risk. Presented at the American Heart Association Scientific Conference on Hormonal, Metabolic, and Cellular Influences on Cardiovascular Disease in Women, San Diego, Oct. 19-21, 1995.

**Crawford SL**, McKinlay SM, McKinlay JB, Johannes CB. The impact of smoking on the association between menopause and cardiovascular disease risk. Presented at the American Heart Association Scientific Conference on Hormonal, Metabolic, and Cellular Influences on Cardiovascular Disease in Women, San Diego, Oct. 19-21, 1995.

**Crawford SL**, Tennstedt SL, McKinlay JB. Longitudinal care patterns for disabled elders: a Bayesian analysis of missing data. Presented at the 2nd Workshop on Bayesian Statistics in Science and Technology: Case Studies, Pittsburgh, October 1993.

