

CURRICULUM VITAE

Ami Laws, M.D.

Title: Affiliated Associate Professor of Medicine
Stanford University School of Medicine

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Birthplace
& Date: Hershey, Pennsylvania
14 September 1953

Degrees: 1976 A.B. Music. Oberlin College, Oberlin, Ohio.
1983 M.D. Medicine. Stanford University School of
Medicine, Stanford, California.

Academic 1983 Research Honors Award. Stanford University School Honors:
of Medicine.
1980 Gilchrist Potter Fellowship for language study in
Mexico. Oberlin College.
1974 First Prize, Piano. Jewish Community Center Young
Artist Competition. Wilmington, Delaware.

Academic 2000 - 2005 Associate Professor of Medicine
Appointments: Stanford University School of Medicine
1994 - 2000 Assistant Professor, (MCL), Division of General
Internal Medicine, Stanford University School of
Medicine
1993 - 1994 Acting Assistant Professor, (MCL), Division of
General Internal Medicine, Stanford University
School of Medicine.
1992 - 1993 Clinical Instructor and Senior Research Scientist, Division
of Endocrinology, Gerontology and Metabolism, Stanford
University School of Medicine.

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<u>Fellowships & Other Advanced Training:</u>	1986 - 1988	Fellow. Center for Research in Disease Prevention, Stanford University School of Medicine.
	1988	Fellow. Ten Day International Seminar on Cardiovascular Disease Epidemiology and Prevention. Oslo, Norway.
	1988 - 1992	Fellow. Division of Endocrinology, Gerontology and Metabolism, Stanford University School of Medicine.
	1993	Student. Bennington Creative Writing Summer Workshop. Bennington College, Bennington, VT.
	1993	Fellow. Advanced Ten Day International Seminar on Cardiovascular Disease Epidemiology and Prevention. Singapore.
	1994	Visiting Scholar. International Rehabilitation Center for Torture Victims. Copenhagen, Denmark. Two week training intensive on epidemiology, purposes, techniques, and physical and mental consequences of torture.
<u>Internship & Residency:</u>	1983 - 1986	Internal Medicine. Stanford University Hospital, Stanford, California.
<u>Medical Board Qualifications:</u>	1984	Licensure, State of California
	1986	Diplomate, American Board of Internal Medicine (ABIM)
	2002	Diplomate, ABIM, Endocrinology, Diabetes and Metabolism
	1994	ABIM, Added Qualifications in Geriatric Medicine
<u>Professional Memberships:</u>		Fellow, American Heart Association Council on Epidemiology Member, American Diabetes Association Member, American Public Health Association Member, American Society for Law, Medicine and Ethics Member, The Endocrine Society Member, International Society and Federation of Cardiology Member, International Society for Traumatic Stress Studies Member, Physicians for Human Rights Member, Society for Traumatic Stress Studies

Clinical Experience

For more than 10 years, I had a large general internal medicine practice and diabetes practice at Stanford Medical Group.

Stanford had ambitious quotas for its doctors both for number of patients seen and work RVU's billed, and I consistently exceeded both. Currently I see at least 10 patients per half-day (4 hours) for 8 sessions per week, including complicated elderly patients with multiple morbidities. I have always performed excellently on patient satisfaction surveys. I also attended for 2 months each year on the inpatient general medical ward. I have gotten excellent feedback from housestaff and students.

Consultant Positions:

1995 - 2001 Survivors International, San Francisco, CA.

I was a consultant (1995 - 1997) and medical director (from 1997) of Survivors International in San Francisco. Survivors International is a non-profit resource and treatment center for victims of torture. I conducted forensic medical examinations of torture survivors from around the world who were petitioning for asylum in the U.S. I frequently testify as an expert witness in Immigration Court in San Francisco. In April 1997, I traveled to Punjab, India to conduct a fact-finding mission on torture of Sikhs by police. I was invited by the U.S. Department of Justice to present a report to the San Francisco Asylum Office in October 1997 (see bibliography).

1995 - 1999 Division of Research, Kaiser Permanente, Oakland, CA.

I was a consultant for the Insulin Resistance/Atherosclerosis Study, a multi-center study funded by NHLBI to assess relations of insulin resistance to cardiovascular disease risk factors in a multi-ethnic cohort (see bibliography).

1993 - 1999 Institute for Health & Aging, University of California, San Francisco.

On this project, I work with Jacqueline Golding, Ph.D., principal investigator, examining long-term medical correlates of sexual assault in several large, epidemiologic data sets (see bibliography).

1992 - 1995 Honolulu Heart Program (research).

1988 - 1993 Stanford Five-City Project (research).

Invited Reviewer:

Diabetes
Diabetologia
European Heart Journal
Journal of the American Geriatrics Society
Journal of Women's Health
Metabolism
Psychosomatic Medicine

Course Directorships:

1. Physicians and Social Responsibility. Medical School. Fall Quarter.
2. Physicians for Human Rights. Medical School. Winter Quarter
3. Health & Human Rights. Undergraduate Sophomore Seminar. Winter Quarter.

Sponsored Student Research Projects:

1. "Sexual and physical abuse history among women patients with fibromyalgia: A pilot study." Medical Scholars project with Katy Richardson. 1996 – 1997.
2. "Police officers attitudes towards domestic violence victims." Undergraduate honors thesis with Yanin Senachai. 2.000
3. "Hepatitis B screening among trainees and community practitioners." Medical Scholars project with Gerald Wang. 2000 – 2001.
4. "South Asian Women's Health Project." Co-advisor with Steve Fortmann, M.D. Medical Scholars project with Chaya Bhuvaneshwar. 1999 – 2001.
5. "Risks and benefits: Infant-feeding practices in a high HIV prevalent area of Johannesburg, South Africa." Medical Scholars project with Emily Keifa. Submitted 2001.
6. "Outside the exam room: A new generation of physician activists." Arts and Humanities Medical Scholars project with Karen Kim. 2001.

Grants:

1. The Effect of Aging on Insulin Resistance in Asian Indians. Hartford Center for Excellence in Geriatrics. PI. December 1991-June 1992.
2. Screening and Identification of PTSD in Aging Veterans Seeking Outpatient Medical Care. Ancillary Funding, Health Services Research and Development Service Research Funds, Palo Alto Veterans Administration Medical Center. Dolores Gallagher, Ph.D., PI. Co-investigator. Awarded July 1, 1993.
3. Insulin Resistance and Atherosclerosis Study. National Institutes of Health, National Heart, Lung and Blood Institute. Consultant. #NIH 1-HL-03-P. Co-investigator. October 1, 1995 - September 30, 2000.
4. Activity Counseling Trial. Project No.: N01 HC45136. Abby King, Ph.D., PI. I am medical director. 20% effort, September 30, 1995 - September 29, 99. Av. annual direct costs: \$408,136. Four year direct costs: \$2,040,680
5. Human Rights & Health. Grant from the HAAS Public Service Center to develop a course for undergraduate students. June 2000.

Invited Presentations: (selected from more than 80)

1. "Insulin, free fatty acids, and stress hormones: Possible mechanisms in dyslipidemia." Paper presented to the conference, "Biobehavioral Mechanisms in Lipid Metabolism and Atherosclerosis," sponsored by NHLBI. Bethesda, MD. January, 1993.
2. "Medical Sequelae of Sexual Assault." Workshop at the conference: "Women Veterans Health and Issues of Sexual Trauma," sponsored by the Veterans Administration. San Diego, CA. September, 1994.
3. "Impact of Sexual Abuse in Medicine." Presented at the symposium: "Sexual and Physical Abuse and its Clinical Impact." American Psychosomatic Society Annual Meeting. New Orleans, LA. March, 1995.
4. Moderator, Abstract Presentations: Epidemiology and Prevention: Obesity, Hyperinsulinemia, and Hyperglycemia. American Heart Association Annual Meeting. New Orleans, LA. November, 1996.
5. "New Therapies for Diabetes." Course lecture, American College of Physicians' Annual Meeting of the Northern California Chapter. San Francisco, CA. October 1997.
6. Panel participant. Country conditions training session on India. U. S. Department of Justice Immigration and Naturalization Service, San Francisco Asylum Office. October 1997.
7. "Police torture in Punjab: An update." Presented at seminar on Human Rights in Punjab. Columbia University, New York, NY. July 1998.
8. "Somatic symptoms in women sexually abuse in childhood." Keynote lecture at Northern California annual meeting of Marriage, Family and Child Counselors. Palo Alto, CA. November 1998.
9. "Fertility issues and pregnancy outcomes in type 1 and type 2 diabetes." Presented at the symposium, "The Epidemiology of Reproductive Health in Women with Type 1 Diabetes." Annual meetings of the American Diabetes Association. San Diego. June 1999.
10. "Polical asylum and refugee health." Talk given at the symposium, "Violence and Public Health," UCSF School of Medicine. San Francisco. February 2000.
12. "Domestic violence and physicians: Screening, treatment and social change." Talk given to the Stanford Student Chapter of Physicians for Social Responsibility and Stanford Women in Medicine. Stanford. April 2000.

BIBLIOGRAPHY

Manuscripts

1. Laws A, Stefanick ML, Reaven GM. Insulin resistance and hypertriglyceridemia in non-diabetic relatives of patients with noninsulin-dependent Diabetes Mellitus. *Journal of Clinical Endocrinology & Metabolism* 1989;69:343-47.
2. Harris RB, Laws A, King AC, Haskell WL. Are women using postmenopausal estrogens? A Community Survey. *American Journal of Public Health* 1990; 80:1266-68.
3. Laws A, Terry RB, Barrett-Connor E. Behavioral covariates of waist-to-hip ratio in Rancho Bernardo. *American Journal of Public Health* 1990;80:1358-62.
4. Laws A, Reaven GM. The effect of physical activity on age-related glucose intolerance. *Clinics in Geriatric Medicine* 1990; 6:849-63.
5. Reaven GM, Laws A. Coronary heart disease in the absence of hypercholesterolaemia. *Journal of Internal Medicine* 1990;228:415-17.
6. Laws A, Reaven GM. Physical activity, glucose tolerance and diabetes in older adults. *Annals of Behavioral Medicine* 1991;13:125-32.
7. Laws A, King A, Haskell W, Reaven GM. Relation of fasting plasma insulin concentration to high density lipoprotein cholesterol and triglyceride concentrations in men. *Arteriosclerosis & Thrombosis* 1991;11:1636-42.
8. Laws A, Reaven GM. Evidence for an independent relationship between insulin resistance and fasting plasma HDL-cholesterol, triglyceride and insulin concentrations. *Journal of Internal Medicine* 1992;231:25-30.
9. Laws A. Does a history of sexual abuse in childhood play a role in women's medical problems? A review. *Journal of Women's Health* 1993;2:165-72.
10. Laws A. Sexual abuse history and women's medical problems. *Journal of General Internal Medicine* 1993;8:441-3.
11. McKeigue PM, Laws A, Chen YD, Marmot MG, Reaven GM. Relation of plasma triglyceride and apoB levels to insulin-mediated suppression of nonesterified fatty acids: possible explanation for sex differences in lipoprotein pattern. *Arteriosclerosis & Thrombosis*. 1993;13:1187-92.
12. Howard BV, Schneiderman N, Haffner S, Falkner B, Laws A. Insulin, health behaviors and lipid metabolism. *Metabolism* 1993;42 (Suppl 1):25-35.

13. Laws A, Reaven GM. Insulin resistance and risk factors for coronary heart disease. *Bailliere's Clinical Endocrinology and Metabolism* 1993;7:1063-78.
14. Felitti V, Laws A, Walker EA. Women abused as children. *Patient Care* 1993;27:169-80.
15. Laws A, Marcus EB, Grove JS, Curb JD. Lipids and lipoproteins as risk factors for coronary heart disease in men with abnormal glucose tolerance: The Honolulu Heart Program. *Journal of Internal Medicine* 1993;234:471-78.
16. Laws A, King A, Haskell W, Reaven GM. Metabolic and behavioral covariates of high-density lipoprotein cholesterol and triglyceride concentrations in post-menopausal women. *Journal of the American Geriatrics Society* 1993;41:1289-94.
17. Gradman TJ, Laws A, Thompson LW, Reaven GM. Verbal learning and/or memory improves with glycemic control in older patients with non-insulin-dependent diabetes mellitus. *Journal of the American Geriatric Society* 1993;41:1305-12.
18. Laws A, Jeppesen JL, Maheux PC, Schaaf P, Chen Y-DI, Reaven GM. Resistance to insulin-stimulated glucose uptake and dyslipidaemia in Asian Indians. *Arteriosclerosis and Thrombosis* 1994;14:917-22.
19. Saad MF, Anderson RL, Laws A, Watanabe RM, Kades WW, Chen Y-DI, Sands RE, Pei D, Savage PJ, and Bergman RN for The Insulin Resistance Atherosclerosis Study. A comparison between the minimal model and the glucose clamp in the assessment of insulin sensitivity across the spectrum of glucose tolerance. *Diabetes* 1994;43:1114-21.
20. Reaven GM, Laws A. Insulin resistance, compensatory hyperinsulinemia and coronary heart disease. *Diabetologia* 1994;37:948-52.
21. Wild SH, Laws A. Reporting of diabetes mellitus on death certificates with coronary heart disease as cause of death in California, 1985-1990. *Diabetes Care* 1995;18:135-37.
22. Burchfiel CM, Laws A, Benfante R, Goldberg RJ, Hwang L-J, Chiu D, Rodriguez BL, Curb JD, Sharp DS. Joint effects of HDL cholesterol, triglyceride and total cholesterol on 18 - year risk of atherosclerotic disease. *Circulation* 1995;92:1430-1436.
23. Anderson RL, Hamman RF, Savage PJ, Saad MF, Laws A, Kades WW, Sands RE, Cefalu W, for the Insulin Resistance Atherosclerosis Study. Exploration of simple insulin sensitivity measures derived from frequently sampled intravenous glucose tolerance (FSIGT) tests: The Insulin Resistance Atherosclerosis Study (IRAS). *American Journal of Epidemiology* 1995;142:724-32.

24. Wild SH, Laws A, Fortmann SP, Varady AN, Byrne CD. Mortality from coronary heart disease and stroke for six ethnic groups in California, 1985-1990. *Annals of Epidemiology* 1995;5:432-439.
25. Laws A. Free fatty acids, insulin resistance and lipoprotein metabolism. *Current Opinion in Lipidology* 1996;7:172-177.
26. Laws A, Golding JM. Sexual assault history and eating disorder symptoms among White, Hispanic, and African-American women and men. *American Journal of Public Health* 1996;86:579-82.
27. Hankin CS, Abueg FR, Gallagher-Thompson D, Laws A. Dimensions of PTSD among older adult male veterans seeking outpatient medical care. *Journal of Clinical Geropsychology* 1996;2:239-246.
28. Laws A, Hoen HM, Selby JV, Haffner SM, Howard BV for the Insulin Resistance Atherosclerosis Study (IRAS) Investigators. Differences in insulin suppression of free fatty acid levels by gender and glucose tolerance status: Relation to plasma triglyceride and apolipoprotein B concentrations. *Arteriosclerosis, Thrombosis & Vascular Biology* 1997;17:64-71.
29. Laws A, Patsalides B. Medical and Psychological Examination of Women Seeking Asylum: Documentation of Human Rights Abuses. *JAMWA* 1997;52:185-187.
30. Howard BV, Mayer-Davis EJ, Goff D, Zaccaro DJ, Haffner SM, Laws A, Robbins DC, Saad M, Selby JV, Hamman RF. Relationships between insulin resistance and lipoproteins in nondiabetic Hispanic, non-Hispanic White and African American Subjects: The Insulin Resistance Atherosclerosis Study. *Metabolism: Clinical and Experimental* 1998;47:1174-9.
31. Howard, G, Bergman R, Wagenknecht LE, Haffner S, Saad MF, Laws A D'Agostino RB for the Insulin Resistance Atherosclerosis (IRAS) Investigators. Ability of alternative indices of insulin sensitivity to predict cardiovascular risk: Comparison with the "Minimal Model." *Annals of Epidemiology* 1998;8:358-69.
32. Dubuisson JT, Wagenknecht LE, D'Agostino RB, Haffner SM, Rewers M, Saad MF, Laws A, Herrington DM. Association of hormone replacement therapy and carotid wall thickness in women with and without diabetes mellitus. *Diabetes Care* 1998;21:1790-6.
33. LeBlanc E, Laws A. Benefits and risks of third-generation oral contraceptives. *Journal of General Internal Medicine* 1999;14:625-32.
34. Laws A. A new era for type 2 diabetes treatment? *Am J Med* 2001;111:71-2.

35. Laws A, Iacopino V. Police torture in Punjab: An extended survey. *Health & Human Rights* 2002;6:195-210..

Books

1. Reaven GM, Laws A, eds. *Insulin Resistance: The Metabolic Syndrome X*. New York, NY; Humana Press: 1999.

Book Chapters

1. Laws A, Reaven GM. Insulin resistance, hyperinsulinemia, dyslipidemia and cardiovascular disease. In: Braunwald E, ed. *Heart Disease: A Textbook of Cardiovascular Medicine*. 4th Edition: Update. New York: W.B. Saunders;1992:1-10.
2. Laws A. Sexual abuse and women's medical problems. In, Brownell KD & Blechman EA, eds. *Behavioral Medicine for Women: A Comprehensive Handbook*. New York: Guilford Publications; 1997:470-74.
3. Laws A. Diabetes and insulin resistance as risk factors for coronary artery disease. In, Charney P, ed. *Coronary Artery Disease in Women: Prevention, Diagnosis & Management*. Philadelphia, PA; American College of Physicians: 1999.
4. Laws A. Insulin resistance and dyslipidemia: Implications coronary heart disease risk. In, Reaven GM, Laws A. *Insulin Resistance*. New York, NY; Humana Press: 1999.

Abstracts

1. Jacobson S, Laws A, Rosenthal M. Quality of well-being after intensive care unit hospitalization. Presented at the Anesthesiology Annual Meetings. Las Vegas, NV; November, 1982.
2. Laws A, Fortmann S, Barrett D, Harris R. Characteristics of heavy smokers in the Stanford Five-City Project. Presented to the American Heart Association Council on Epidemiology Annual Meeting. Santa Fe, NM; March, 1988.
3. Laws A, Harris RB, King AC, Haskell WL. Are women using postmenopausal hormones? A community survey. Presented to the American College of Physicians Northern California Scientific Meeting. Monterey, CA; November, 1988.

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4. Laws A, Stefanick ML, Reaven GM. Insulin resistance and hypertriglyceridemia in first-degree relatives of patients with non-insulin dependent diabetes. Presented to the American Diabetes Association Annual Meetings. Detroit, MI; June, 1989.

5. Laws A, Terry RB, Barrett-Connor E. Environmental covariates of waist-to-hip ratio in Rancho Bernardo. Presented to the 2nd International Conference on Preventive Cardiology and the American Heart Association Council on Epidemiology Annual Meeting. Washington, D.C.; June, 1989.
6. Laws A, Reaven GM. Evidence for an independent relationship between insulin resistance and fasting plasma triglyceride and HDL- cholesterol concentrations. Presented to the American Heart Association Annual Meetings. Dallas, TX; November, 1990.
7. Laws A, King A, Haskell W, Reaven GM. The relationship of fasting plasma insulin concentration to HDL-C, HDL-C subfractions and triglyceride concentrations in men. Presented to the American Heart Association Council on Epidemiology Annual Meeting. Orlando, FL; March, 1991.
8. Laws A, Thompson L, Gradman T, Reaven GM. Effects of glycemic control on cognitive function in older patients with non-insulin dependent diabetes (NIDDM). Presented to the American Diabetes Association Annual Meetings. San Antonio, TX; June, 1992.
9. Laws A, McKeigue P, Chen Y-DI, Marmot M, Reaven GM. Sex Differences in Nonesterified Fatty Acid Suppression are Related to Plasma Triglyceride and Apolipoprotein B Levels. Presented to the American Heart Association Council on Epidemiology Annual Meeting. Santa Fe, NM; March, 1993.
10. Burchfiel CM, Laws A, Benfante R, Goldberg RJ, Hwang L-J, Chiu D, Rodriguez BL, Curb JD, Sharp DS. Joint effects of high density lipoprotein (HDL) cholesterol, triglyceride and total cholesterol on risk of atherosclerotic disease: The Honolulu Heart Program. Presented to the American Heart Association Annual Meetings. Atlanta, GA; November, 1993.
11. Golding JM, Laws A, George LK. Sexual assault history and eating disorder symptoms among non-Hispanic white, Hispanic, and African American women and men. Presented at the Association for Women in Psychology Annual Meeting. Oakland, CA; March 1994.
12. Laws A. Exercise capacity and the metabolic syndrome in women. Presented to the American Psychological Association conference: Psychosocial and Behavioral Factors in Women's Health: Creating an Agenda for the 21st Century. Washington DC; May, 1994.

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13. Anderson RL, Burke GL, Rewers M, Kades WW, Watanabe R, Laws A, Savage PJ. Assessment of insulin sensitivity in populations via intravenous glucose tolerance test: Insulin resistance Atherosclerosis Study (IRAS). Presented at the American Diabetes Association Annual Meetings. New Orleans, LA; June, 1994.

14. Hankin C, Abueg FR, Gallagher-Thompson D, Laws A. Lifetime traumata: Effects upon elderly veterans seeking medical care. In Abueg FR (chair). In, "Adaptation to Trauma among the Elderly." Symposium presented at the American Psychological Association Annual Meetings. Los Angeles, CA; August 1994.
15. Laws A, Bergman RN, Sands E, for the IRAS Study Group. Relative impairment in acute insulin response in IGT. Presented at the European Association for the Study of Diabetes annual meetings, Dusseldorf, Germany; October, 1994.
16. Saad M, Anderson R, Laws A, Watanabe R, Kades W, Pei D, Savage P. Presented at the European Association for the Study of Diabetes Annual Meetings. Dusseldorf, Germany; October, 1994.
17. Hankin CS, Abueg FR, Gallagher-Thompson D, Wecker N, Laws A. Screening and identification of PTSD in elderly medical help-seeking veterans. Presented at the International Society for Traumatic Stress Annual Meeting. Chicago, IL; November, 1994.
18. Laws A, Whalen M, Kline K, Firestein B, Saks Berman J, Norsworthy K. Healing from trauma. Paper as part of workshop, "U.S. Feminist Perspectives on the Psychology of Trauma." Presented at the United Nations NGO Forum on Women. Beijing, China; August 1995.
19. Laws A, Hoen HM, Selby JV for the IRAS investigators. Impaired insulin suppression of free fatty acids affects triglyceride and apolipoprotein B levels: The Insulin Resistance Atherosclerosis Study (IRAS). Presented at the American Heart Association Annual Meetings. Anaheim, CA; November, 1995.
20. Richardson K, Davidson P, Laws A. Sexual and physical abuse history among women patients with fibromyalgia: A pilot study. Presented at the American Psychosomatic Society Annual Meeting. Santa Fe, NM; March, 1997.

Letters

1. Laws A. Actual versus self-reported intake and exercise in obesity. *NEJM* 1993;328:1494.
2. Laws A. Carcinogenicity of lipid-lowering drugs. *Jama* 1996;275:1480.

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Book Reviews

1. Laws A. Help is at hand -- for diagnosing and treating diabetes mellitus. Review of: Leahy JL, Clark NG, Cefalu WT, eds. *Medical Management of Diabetes Mellitus*. Marcel Dekker, Inc.; New York:2000. Reviewed for *Trends in Endocrinology and Metabolism*; 2001.