

## CURRICULUM VITAE (October 2017)

### Eric L. Hurwitz

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### Education

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<i>Institution</i>	<i>Degree (date awarded)</i>	<i>Dates</i>	<i>Field</i>
University of California, Berkeley	A.B. (5/17/85)	9/81 - 5/85	Physiology
Los Angeles College of Chiropractic	D.C. (12/17/88)	9/85 - 12/88	Chiropractic
University of California, Los Angeles	M.S. (6/14/91)	9/88 - 6/91	Epidemiology
University of California, Los Angeles	Ph.D. (3/22/96)	9/91 - 12/95	Epidemiology

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### Publications

#### Chapters in books

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1. **Hurwitz EL.** Epidemiology of cervical spine disorders. In: Murphy DR, ed. *Modern Conservative Management of Cervical Spine Syndromes*. Norwalk, Conn: Appleton & Lange, October, 1999.
2. **Hurwitz EL, Haldeman S.** Manipulative therapy. In: Fardon DF, Garfin SR, eds. *Orthopaedic Knowledge Update: Spine, Edition 2*. Rosemont, Ill: American Academy of Orthopaedic Surgeons, 2002.
3. **Hurwitz EL, Haldeman S.** Manual therapy including manipulation for acute and chronic neck pain. In: Fischgrund JS, ed. *Neck Pain*. Rosemont, Ill: American Academy of Orthopaedic Surgeons, 2004.
4. **Hurwitz EL, Shekelle PG.** Epidemiology of low back syndromes. In: Morris CE, ed. *Low Back Syndromes: Integrated Clinical Management*. New York, NY: McGraw-Hill Publishers, 2006.
5. Côté P, Carroll L, Cassidy JD, Rezaei M, Kristman V and the **Scientific Secretariat of the 2000-2010 Bone and Joint Decade Task Force on Neck Pain and Associated Disorders**. Chapter 3a: A review of the epidemiology of neck pain in workers: Prevalence, incidence and risk factors. In: Nordin M, ed. *Musculoskeletal Disorders at Work: Prevention of Disability*, 2006.

6. **Hurwitz EL.** Public health research methods. In: Haneline MT, Meeker WC, eds. *Introduction to Public Health for Chiropractors*. Boston: Jones and Bartlett Publishers, 2010.

#### **Articles in international or national refereed journals**

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1. **Hurwitz EL,** Phillips RB. Chiropractic in the yellow pages: a content analysis study. *J Manipulative Physiol Ther* 11:281-289, 1988.
2. Shekelle PG, Adams AH, Chassin MR, **Hurwitz EL,** Brook RH. Spinal manipulation for low-back pain. *Annals of Internal Medicine* 117:590-598, 1992.
3. **Hurwitz EL.** The relative impact of chiropractic vs. medical management of low-back pain on health status in a multispecialty group practice. *J Manipulative Physiol Ther* 17:74-82, 1994.
4. Shekelle PG, **Hurwitz EL,** Coulter I, Adams AH, Genovese B, Brook RH. The appropriateness of chiropractic spinal manipulation for low-back pain: a pilot study. *J Manipulative Physiol Ther* 18:265-270, 1995.
5. Coulter ID, **Hurwitz EL,** Aronow HU, Cassata DM, Beck JC. Chiropractic patients in a comprehensive home-based geriatric assessment, follow-up and health promotion program. *Topics in Clinical Chiropractic* 3:46-55, 1996.
6. **Hurwitz EL,** Aker PD, Adams AH, Meeker WC, Shekelle PG. Manipulation and mobilization of the cervical spine: a systematic review of the literature. *Spine* 21:1746-1760, 1996.
7. Diehl DL, Kaplan G, Coulter ID, Glik D, **Hurwitz EL.** Use of acupuncture by American physicians. *Journal of Alternative and Complementary Medicine* 3:119-126, 1997.
8. **Hurwitz EL,** Morgenstern H. Correlates of back problems and back-related disability in the United States. *J Clinical Epidemiology* 50:669-681, 1997.
9. **Hurwitz EL,** Morgenstern H. The effects of comorbidity and other factors on medical versus chiropractic care for back problems. *Spine* 22:2254-2264, 1997.
10. Wilkes M, Coulter ID, **Hurwitz EL.** The relationship of specialty and training on residents' attitudes toward a changing health care system. *Research in the Sociology of Health Care* 15:121-136, 1998.
11. **Hurwitz EL,** Coulter ID, Adams AH, Genovese BJ, Shekelle PG. Use of chiropractic services from 1985 through 1991 in the United States and Canada. *Am J Public Health* 88:771-776, 1998.
12. Shekelle PG, Coulter I, **Hurwitz EL,** Adams AH, Genovese B, Mior SA, Brook RH. Congruence between decisions to initiate chiropractic spinal manipulation for low back pain and appropriateness criteria in North America. *Annals of Internal Medicine* 129:9-17, 1998.
13. Wilkes M, Coulter ID, **Hurwitz EL.** Medical, law, and business students' perceptions of the changing health care system. *Social Science & Medicine* 47:1043-1049, 1998.
14. Smith BMT, **Hurwitz EL,** Solsberg D, Rubinstein D, Corenman DS, Dwyer AP, Kleiner J. Interobserver reliability of detecting lumbar intervertebral disc high-intensity zone (HIZ) on MRI and association of HIZ with pain and annular disruption. *Spine* 23:2074-2080, 1998.

15. **Hurwitz EL**, Morgenstern H. The effect of comorbidity on care seeking for back problems in the United States. *Annals Epidemiol* 9:262-270, 1999.
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17. Caldwell SG, **Hurwitz EL**, Adams A. Piriformis syndrome: An annotated bibliography. *Journal of the Canadian Chiropractic Association* 43:176-182, 1999.
18. Clements PJ, Wong WK, **Hurwitz EL**, Furst DE, Mayes M, White B, Wigley F, Weisman M, Barr W, Moreland L, Medsger T, Steen V, Martin R, Collier D, Weinstein A, Lally E, Varga J, Weiner S, Andrews B, Abeles M, Seibold J. Correlates of the disability index of the Health Assessment Questionnaire. A measure of functional impairment in systemic sclerosis. *Arthritis and Rheumatism* 42:2372-2380, 1999.
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21. Coulter ID, **Hurwitz EL**, Spitzer K, Genovese BJ, Hays RD. A Chiropractic Supplemental Item Set for the Consumer Assessment of Health Plans Study. *Topics in Clinical Chiropractic* 7:50-56, 2000.
22. Clements PJ, Wong WK, **Hurwitz EL**, Furst DE, Mayes M, White B, Wigley F, Weisman M, Barr W, Moreland L, Medsger T, Steen V, Martin R, Collier D, Weinstein A, Lally E, Varga J, Weiner S, Andrews B, Abeles M, Seibold J. The Disability Index of the Health Assessment Questionnaire as a predictor and correlate of outcome in the high-dose versus low-dose penicillamine in systemic sclerosis trial. *Arthritis and Rheumatism* 44:653-661, 2001.
23. **Hurwitz EL**, Morgenstern H. Immediate and longterm effects of immune stimulation: hypothesis linking the immune response to subsequent physical and psychological wellbeing. *Medical Hypotheses* 56:620-624, 2001.
24. Yu F, Belin TR, Morgenstern H, **Hurwitz EL**. Use of a transition model to analyze longitudinal low-back-pain data. 2001 *Proceedings of the American Statistical Association, Biometrics Section* [CD-ROM], Alexandria, VA: American Statistical Association, 2001.
25. **Hurwitz EL**, Morgenstern H, Harber P, Kominski GF, Belin TR, Yu F, Adams AH. The effectiveness of physical modalities among low-back-pain patients randomized to chiropractic care: Findings from the UCLA Low-Back Pain Study. *J Manipulative Physiol Ther* 25:10-20, 2002.
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27. Garcia L, **Hurwitz EL**, Kraus JF, de la Torre A. An epidemiological study of intimate partner violence and Latinas: USA, Mexico and Central America. *Journal of Border Health* 7:21-32,

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38. **Hurwitz EL**. Managing back pain: The complementary and alternative therapies. *J Musculoskeletal Med* 22:121-129, 2005.
39. Garcia L, **Hurwitz EL**, Kraus JF. Acculturation and reported intimate partner violence among Latinas in Los Angeles. *J Interpersonal Violence* 20:569-590, 2005.
40. Kohlbeck FJ, Haldeman S, **Hurwitz EL**, Dagenais S. Supplemental care with medication-assisted manipulation versus spinal manipulation therapy alone for patients with chronic low back pain. *J Manipulative Physiol Ther* 28:245-252, 2005.

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42. **Hurwitz EL**, Morgenstern H, Vassilaki M, Chiang L-M. Frequency and clinical predictors of adverse reactions to chiropractic care in the UCLA Neck Pain Study. *Spine* 30:1477-1484, 2005.
43. **Hurwitz EL**, Morgenstern H, Chiao C. Effects of recreational physical activity and back exercises on low-back pain and psychological distress: Findings from the UCLA Low-Back Pain Study. *Am J Public Health* 95:1817-1824, 2005.
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57. van der Velde G, van Tulder M, Côté P, Hogg-Johnson S, Aker P, Cassidy JD: The Scientific Secretariat of The Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. Carragee E, Carroll L, Guzman J, Haldeman S, Holm L, **Hurwitz E**, Nordin M, Peloso P. The sensitivity of review results to methods used to appraise and incorporate trial quality into data synthesis. *Spine* 32:796-806, 2007.
58. Murphy DR, **Hurwitz EL**. A theoretical model for the development of a diagnosis-based clinical decision rule for the management of patients with spinal pain. *BMC Musculoskeletal Disorders* 8:75, 2007. [Translated into French and published on the website <http://www.actukine.com>]
59. Garcia L, Soria C, **Hurwitz EL**. Homicides and intimate partner violence: A literature review. *Journal of Interpersonal Violence & Trauma, Violence, and Abuse: A Review Journal* 8:370-383, 2007.
60. Kawchuk GN, Jhangri GS, **Hurwitz EL**, Wynd S, Haldeman S, Hill MD. The relation between the spatial distribution of vertebral artery compromise and exposure to cervical manipulation. *Journal of Neurology* 255:371-377, 2008.
61. Guzman J, **Hurwitz EL**, Carroll LJ, Haldeman S, Côté P, Carragee EJ, Peloso PM, van der Velde G, Holm LW, Hogg-Johnson S, Nordin M, Cassidy JD; Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. A new conceptual model of neck pain: linking onset, course, and care: the Bone and Joint Decade 2000-2010 Task Force on Neck Pain and Its Associated Disorders. *Spine* 33 (4 Suppl):S14-23, 2008.  
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18. Carragee E, Cuellar J, **Hurwitz E**, Carrino J, Herzog R. Does provocative discography cause clinically important injury to the lumbar intervertebral disc? A ten-year matched cohort study. (26<sup>th</sup> Annual Meeting of the North American Spine Society. Chicago, Illinois, November 2-5, 2011.) *The Spine Journal* (Supplement) 11 (10S), October 2011, Abstract #48, p.23S-24S.
26. Pohlman KA, O'Beirne M, Thiel H, Cassidy JD, Mior S, **Hurwitz EL**, Westaway M, Ishaque S, Yager JY, Vohra S. Development and validation of instruments to evaluate adverse events after spinal manipulation therapy. (Integrative Medicine and Health 2014. Miami, Florida, May 13-16, 2014.) *J Altern Complement Med* 2014;20(5):A49, Abstract #P02.30.
27. Starr RR, Davis JW, **Hurwitz EL**, Juarez DT. Drug-Level Variation in Medication Adherence among Adult Diabetics in Hawaii: Clinical and Methodological Implications. (American College of Epidemiology's 2014 annual meeting. Silver Spring, Maryland, September 7-9, 2014.) *Annals of Epidemiology* 2014;24:690, Abstract #P36, p.690.
28. Haldeman S, Nordin M, Outerbridge G, **Hurwitz E**, Hondras M, Kopansky-Giles D. Delivering sustainable spine care in underserved communities: The World Spine Care (WSC) Charity ([www.worldspinecare.org](http://www.worldspinecare.org)) / Entregando una columna de cuidado sostenible en las comunidades marginadas: The World Spine Care Charity (WSC). (3rd World Congress on Integrated Care. Mexico City, Mexico, November 19-21, 2015) *International Journal of Integrated Care*, Vol 15, WCIC Conference Supplement, 2015.

## Teaching experience

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<i>Course</i>	<i>Location</i>	<i>Dates</i>
Introduction to Epidemiology Health Careers Opportunity Program Prologue Orientation	UCLA School of Public Health (SPH)	Summers, 1991-1994
Research Design and Methods [co-instructor] Clinical Research Center, Summer Program	UCLA School of Medicine	Summers, 1996-2001
Introduction to Epidemiology UCLA Diversity Program, Prologue Orientation	UCLA SPH	Summer, 1996
Biometrics (Biology 246)	California State University, Los Angeles	Fall Quarter, 1995
Research Methods [co-instructor]	Southern California University of Health Sciences, Los Angeles College of Chiropractic	Winter Trimesters, 1997-1999; Fall Trimesters, 1997-1998
Data Management and Applied Epidemiologic Analysis Using SAS (Epi 419)	UCLA SPH	Winter Quarters, 1997-1998
Introduction to Epidemiology, Executive MPH program in Health Services (Epidem 100) [co-instructor]	UCLA SPH	Spring Quarters, 1997-1999
Introduction to Epidemiology, Executive MPH program in Community Health Sciences (Epidem 100) [co-instructor]	UCLA SPH	Winter Quarters, 1998-1999
Applications in Musculoskeletal Epidemiology (Epidem 419)	UCLA SPH	Fall Quarter, 1998
Computer Management and Analysis of Health Data (Biostat 403B)	UCLA SPH	Winter Quarters, 2000-2001
Computer Management and Analysis of Health Data Using SAS (Epidem M403/Biostat M403B)	UCLA SPH	Winter Quarters, 2002-2003
Fiat Lux Seminar: Shots for Tots: Science and Ethics of U.S. and Global Childhood Immunization Programs (Honors 98)	UCLA College of Letters and Science Honors Collegium	Winter Quarter, 2003
Epidemiology I (Epidem 200)	UCLA SPH	Fall Quarter, 2003
Epidemiology II (Epidem 201A)	UCLA SPH	Winter Quarter, 2004
Fiat Lux Seminar: Deadly Medicine: An Exploration of the Epidemic of Medical Miscues in the U.S. (Epidem 19)	UCLA College of Letters and Science Honors Collegium	Winter Quarter, 2004

Epidemiology I (Epidem 200)	UCLA SPH	Fall Quarter, 2004
Epidemiology I (Epidem 200A)	UCLA SPH	Fall Quarter, 2005
Principles of Epidemiology II (Public Health 664)	John A. Burns School of Medicine (JABSOM), University of Hawai`i, Mānoa	Spring Semesters, 2006-2017
Fundamentals of Clinical Epidemiology (Public Health 792E) (Public Health 692)	JABSOM, University of Hawai`i, Mānoa	Fall Semesters, 2006-7; Spring Semesters, 2009-2011
Continuing Education in Public Health (Public Health 696) [co-instructor]	JABSOM, University of Hawai`i, Mānoa	Spring Semester, 2007
Analytic Approaches to Maternal and Child Health (Public Health 647) [distance education – online]	JABSOM, University of Hawai`i, Mānoa	Fall Semesters, 2007-2009
Directed Reading/Research (Public Health 699) [complementary and alternative medicine]	JABSOM, University of Hawai`i, Mānoa	Fall Semester, 2007
Directed Reading/Research (Public Health 699) [systematic reviews and meta analysis]	JABSOM, University of Hawai`i, Mānoa	Spring Semesters, 2008-2009, 2011; Fall Semester, 2010
Directed Reading/Research (Public Health 699) [data management and analysis using SAS]	JABSOM, University of Hawai`i, Mānoa	Fall Semesters, 2008-2010; Spring Semester, 2010
Principles of Epidemiology I (Public Health 663) [distance education – online]	JABSOM, University of Hawai`i, Mānoa	Fall Semesters, 2010-2012
Introduction to Epidemiology (Public Health 302, 310) [Undergraduate courses]	JABSOM, University of Hawai`i, Mānoa	Spring Semesters, 2012-2017
Teaching and Research Practica (Public Health 771 and 772)	JABSOM University of Hawai`i, Mānoa	Spring Semesters, 2012-2017
Advanced Epidemiology (Public Health 410) [Undergraduate course]	University of Hawai`i, Mānoa	Fall Semesters, 2014-2017
Statistical Methods in Epidemiological Research (Public Health 747)	University of Hawai`i, Mānoa	Fall Semesters, 2014-2017
Seminar in Public Health Sciences: Epidemiology (Public Health 788)	University of Hawai`i, Mānoa	Fall Semesters, 2015-2017