References

Chapter 1

- 1. Aristotle. Nicomachean ethics book II. In: Barnes, J., ed. The complete works of Aristotle. Princeton, NJ: Princeton University Press; 1984.
- 2. Buck Consultants. Working well: A global survey of health promotion and workplace wellness strategies. October 2007. Available at: www.bucksurveys.com.
- 3. Chapman, L. Expert opinions on "best practices" in worksite health promotion (WHP). *The Art of Health Promotion*. 2004;July/August:1-6.
- 4. Collins, J. Good to great. New York: HarperCollins Publishers; 2001.
- 5. Eby, F., and Arrowood, C.F. The history and philosophy of education, ancient and medieval. Englewood Cliffs, NJ: Prentice Hall; 1940.
- 6. Goetzel, R.Z., Guindon, A., Humphries, L., et al. Health and productivity management: Consortium benchmarking study best practice report. Houston: American Productivity and Quality Center International Benchmarking Clearinghouse; 1998. www.apqc.org.
- 7. Goetzel, R.Z., Shechter, D., Ozminkowski, R.J., Marmot, P.F., Tabrizi, M.J., and Roemer, E.C. Promising practices in employer health and productivity management efforts: Findings from a benchmarking study. *Journal of Occupational and Environmental Medicine*. 2007;49:111-30.
- 8. Gochfeld, M. Chronological history of occupational medicine. Journal of Occupational and Environmental Medicine. 2005;47(2):96-114.
- 9. HealthPartners Health Behavior Group. Unpublished internal analysis; 2006.
- 10. Herrick, D.M. Why employer-based health insurance is unraveling. November 1, 2005. Available at: http://cdhc.ncpa.org/commentaries/why-employer-based-health-insurance-is-unraveling.
- 11. Hook, G.E. Ramazzini: father of environmental health? Environmental Health Perspectives. 1995;103 (11): 982-3.
- 12. Institute of Medicine (IOM). *Integrating employee health: A model program for NASA*. Washington, DC: The National Academies Press; 2005.
- 13. Isidore, C. Doctors orders: GM, UAW, cut deal. October 17, 2005. Available at: http://money.cnn.com/2005/10/17/news/fortune500/gm_wagoner.
- 14. Kindig, D.A. Understanding population health terminology. *The Milbank Quarterly*. 2007;85(1):139-61.
- 15. Martinson, B.C., Crain, A.L., Pronk, N.P., O'Connor, P.J., and Maciosek, M.V. Changes in physical activity and short-term changes in health care charges: A prospective study of older adults. *Preventive Medicine*. 2003;37(4):319-26.
- 16. Musich, S., McDonald, T., Hirschland, D., and Edington, D.W. Examination of risk status transitions among active employees in a comprehensive worksite health promotion program. *Journal of Occupational and Environmental Medicine*. 2003;45(4):393-9.
- 17. O'Donnell, M., Bishop, C., and Kaplan, K. Benchmarking best practices in workplace health promotion. *The Art of Health Promotion*. 1997;1(1):12.
- 18. Podewils, L.J., and Guallar, E. Mens sana in corpore sano. *Annals of Internal Medicine*. 2006;144(2):135-7.
- 19. Pronk, N.P. Aligning program support with interventions for optimum impact. ACSM's Health & Fitness Journal. 2007;11(3):40-2.
- 20. Russell, P. Waking up in time. Novato, CA: Origin Press; 1998.
- 21. Schult, T.M.K., McGovern, P.M., Dowd, B., and Pronk, N.P. The future of health promotion/disease prevention programs: The incentives and barriers faced by stakeholders. *Journal of Occupational and Environmental Medicine*. 2006; 48:541-48.
- 22. Serxner, S., Baker, K., and Gold, D.B. Guidelines for analysis of economic return from health management programs. *The Art of Health Promotion*. 2006;20(6):1.
- 23. Serxner, S., Noeldner, S.P., and Gold, D. Best practices for an integrated population health management (PHM) program. *The Art of Health Promotion*. 2006;20(5):1.
- 24. Sigerist, H.E. *Medicine and human welfare*. New Haven, CT: Yale University Press; 1941:93.

25. Sigerist, H.E. The university at the crossroads. New York: Henry Schuman; 1946:127-8.

- 1. Aldana, S.G. Financial impact of health promotion programs: A comprehensive review of the literature. *American Journal of Health Promotion*. 2001;15(5):296-320.
- 2. Aldana, S.G. Financial impact of worksite health promotion and methodological quality of the evidence. *American Journal of Health Promotion*. 1998;2:1-8.
- 3. Anderson, D.R., Whitmer, R.W., Goetzel, R.Z., et al. The relationship between modifiable health risks and group-level health care expenditures. *American Journal of Health Promotion*. 2000;15(1):45-52.
- 4. Ardell, D. B. High Level Wellness: An Alternative to Doctors, Drugs and Disease. Emmaus, PA: Rodale (1976).
- 5. Ardell, D. Seeking wellness—Wellness pioneer Don Ardell, PhD, speaks out on the state of wellness in the United States today. *Absolute Advantage*. 2004;4:12-8.
- 6. Bertera, R.L. The effects of workplace health promotion on absenteeism and employment costs in a large industrial population. *American Journal of Health Promotion*. 1900;80(9):1101-5.
- 7. Bly, J.L., Jones, R.C., and Richardson, J.E. Impact of worksite health promotion on health care costs and utilization: Evaluation of Johnson & Johnson Live for Life program. *Journal of the American Medical Association*. 1986;256(23):3235-40.
- 8. Borger, C., Smith, S., Truffer, C., et al. Health spending projections through 2015: Changes on the horizon. *Health Affairs*. 2006 Mar-Apr;25(2):w61-73.
- 9. Brink, S. D. Health Risks and Behavior: The Impact on Medical Costs. Milliman & Robertson, Inc. and Control Data, 1987.
- 10. Business Roundtable member's quarterly survey. March 2004. Available at: www.businessroundtable.org (accessed September 21, 2008).
- 11. California Health Care Foundation. Average annual growth rate and per employee cost. Snapshot: Health Care Costs 101. Reporting on data from the Centers for Medicine and Medicaid Sources (CMS). Office of the Actuary. Available at: www.chcf.org/topics/healthinsurance/index.cfm?itemID=133630.
- 12. Catlin, A., Cowan, C., Heffler, S., and Washington, B. National health spending in 2005: The slowdown continues. *Health Affairs*. 2007;26(1):142-53.
- 13. Chapman, L. Proof positive: An analysis of the cost-effectiveness of wellness. 2nd ed. Seattle: Corporate Health Designs; 1995.
- 14. Data Watch. The benefits of leadership. Business and Health. 1999;17(2):52.
- 15. Davidson, K. Selling sin: The marketing of socially unacceptable products. Westport, CT. Greenwood Publishing Group; 2003:24.
- 16. Dunn, H.L. High level wellness. Arlington, VA: Beatty Press; 1961.
- 17. Goetzel, R.Z. The financial impact of health promotion and disease prevention programs—Why is it so hard to prove value? *American Journal of Health Promotion*. 2001;15(5):277-80.
- 18. Goetzel, R.Z., Anderson, D.R., Whitmer, R.W., Ozminkowski, R.J., Dunn, R.L., and Wasserman, J. The relationship between modifiable health risks and health care expenditures: An analysis of the multi-employer HERO health risk and cost database. *Journal of Occupational and Environmental Medicine*. 1998:40(10):843-54.
- 19. Harvey, M.R., Whitmer, R.W., Hilyer, J.C., and Brown, K.C. The impact of a comprehensive medical benefits cost management program for the City of Birmingham: Results at five years. *American Journal of Health Promotion*. 1993:7(4):296-303.
- 20. Institute for Health and Productivity Management . *IHPM's background*. Available at: http://www.ihpm.org/info/background.php (accessed September 21, 2008
- 21. Kessler, R.C., Barber, C., Beck, A., et al. The World Health Organization health and work performance questionnaire. *Journal of Occupational and Environmental Medicine*. 2003;45(2):156-74.
- 22. Leutzinger, J., Goetzel, R., Richling, D., and Wade, S. Projecting the impact of health promotion on medical costs. *Business and Health*. 1993;11(4):38-44.

- 23. Lynch, W., and Riedel, J.E., ed. *Measuring employee productivity: A guide to self-assessment tools.* Scottsdale, AZ: Institute of Health and Productivity Management; 2001.
- 24. McGinnis, J.M., and Foege, W.H. Actual causes of death in the United States. *Journal of the American Medical Association*. 1993;270(18):2207-12.
- 25. Mokdad, A.H., Marks, J.S., Stroud, D.F., and Gerberding, J.L. Actual causes of death in the United States—2000. *Journal of the American Medical Association*. 2004;291(10):1238-45.
- 26. Moore, G. The carrot or the stick? Business and Health 2003; 21(11):3.
- 27. O'Donnell, M.P. Health impact of work-place health promotion programs and methodological quality of the research literature. *American Journal of Health Promotion*. 1997;1:1-7.
- 28. Office of Management and Budget. Budget of the United States Government. Fiscal year 2006. 2006. Available at: www.whitehouse. gov/omb/budget/fy2006/pdf/06msr.pdf.
- 29. Pelletier, K.R. A review and analysis of the clinical and cost-effectiveness studies of comprehensive health promotion and disease management programs at the worksite: 1998-2000 update. *American Journal of Health Promotion*. 2001;16(2):107-16.
- 30. Prochaska, J.O., and Velicer, W.F. The transtheoretical model of health behavior change. *American Journal of Health Promotion*. 1997;12(1):38-48.
- 31. Pronk, N.P., Goodman, M.J., and O'Conner, P.J. Relationship between modifiable health risks and short-term health care charges. *Journal of the American Medical Association*. 1999;282(23):2235-9.
- 32. Seek Wellness. Available at: http://www.seekwellness.com/wellness/ardell_bio.htm (accessed September 21, 2008
- 33. The state of health care in America: 1998. Business Health Annual Issue. 1998:25.
- 34. Travis, J. Simply well: Choices for a healthy life. 10th ed., Berkeley, CA Ten Speed Press; 2001:18, page 15.
- 35. Travis, J., and Ryan, R.S. Wellness—small changes you can use to make a big difference., Berkeley, CA Ten Speed Press; 1991:4-5.
- 36. Wang, S., Beck, A., Berglund, P., et al. Chronic medical conditions and work performance in the health and work performance questionnaire calibration surveys. *Journal of Occupational and Environmental Medicine*. 2003;45(12):1303-11.
- 37. Wellness Councils of America (WELCOA). Our founder. Available at: http://www.welcoa.org/presskit/founder.php (accessed September 21, 2008)
- 38. Wikipeda—The Free Encyclopedia. Galen. Available at: www. en.wikipedia.org/wiki/Galen (accessed September 21, 2008).
- 39. Yen, L.T., Edington, D.W., and Witting, P. Association between health risk appraisal scores and employee medical claims costs in a manufacturing company. *American Journal of Health Promotion*. 1991;6(1):46-54.
- 40. Travis, J.W. The illness-wellness continuum: *The wellness workbook for health professionals*. 1977; Mill Valley, CA: Wellness Resource Center
- 41. Milliman and Roberson, Inc. Health Risk and Behaviors: The Impact on Medical Cost. Control Data Corporation, 1987.
- 42. Healthwise Handbook, First Edition. Healthwise, Inc. Boise, Idaho, 1976.

- 1. Aldana, S.G. Financial impact of health promotion programs: A comprehensive review of the literature. *American Journal of Health Promotion*. 2001;15(5):296-320.
- 2. Beal, A.C., Doty, M.M., Hernandez, S.E., Shea, K.K., and Davis, K. Closing the divide: How medical homes promote equity in health care. Commonwealth Fund. 2007. Available at: www.commonwealthfund. org/publications/publications_show.htm?doc_id=506814.
- 3. Bertera, R.L. Planning and implementing health promotion in the workplace: A case study of the DuPont company experience. *Health Education Quarterly.* 1990;17(3):307-27.
- 4. Bertera, R.L. The effects of workplace health promotion on absenteeism and employment costs in a large industrial population. *American Journal of Public Health*. 1990;80(9):1101-5.
- 5. Bloom, D.E., and Canning, D. The health and wealth of nations. *Science*. 2000;287:1207-9.
- 6. Blumenthal, D. Employer-sponsored insurance—riding the health care tiger. *The New England Journal of Medicine*. 2006;355:195-202.

- 7. Brandt-Rauf, P., Burton, W.N., and McCunney, R.J. Health, productivity, and occupational medicine. *Journal of Occupational and Environmental Medicine*. 2001;43(1):1.
- 8. Butcher, L. The workplace doctor is in. *HealthLeaders Media Magazine* [serial online]. 2007;March. Available at: www.healthleadersmedia.com/magazine/ view_magazine_feature.cfm?content_id=87829&categoryid=153.
- 9. Centers for Disease Control and Prevention (CDC). Achievements in public health, United States 1900-1999: Improvements in workplace safety. *Morbidity and Mortality Weekly Report.* 1999;48(22):461-69.
- 10. Chapman, L. Meta-evaluation of worksite health promotion economic return studies: 2005 update. *The Art of Health Promotion*. 2005;July/August:1-10.
- 11. Chapman, L.S., and Pelletier, K.R. Population health management as a strategy for creation of optimal healing environments in worksite and corporate settings. *Journal of Alternative and Complementary Medicine*. 2004;19(S1):S127-40.
- 12. Coulter, C.H. The employer's case for health management. *Benefits Quarterly*. 2006;22(1):23-33.
- 13. Downey, A.M., and Sharp, D.J. Why do managers allocate resources to workplace health promotion programmes in countries with national health coverage? *Health Promotion International*. 2007;22(2):102-11.
- 14. Draper, E. The company doctor: Risk, responsibility, and corporate professionalism. New York: Russell Sage Foundation; 2003:396.
- 15. Edington, D.W. Emerging research: A view from one research center. American Journal of Health Promotion. 2001;15(5):341-9.
- 16. Fabius, R. The migration strategy: Building a benchmark medical presence at the workplace. *Health and Productivity Management*. 2007;6(1):4-7.
- 17. Forouzesh, M.R., and Ratzker, L.E. Health promotion and wellness programs: An insight into the Fortune 500. *Journal of Health Education*. 1985; January: 18-22.
- 18. Frazee, S.G., Fabius, R., Ryan, P., Broome, R., and Manfred, J. A prescription for appropriate antibiotic usage: Physicians and pharmacists collaborate within a workplace health center. *Journal of Health and Productivity*. 2007;March:10-7.
- 19. Frazee, S.G., Kirkpatrick, P., Fabius, R., and Chimera, J. Leveraging the trusted clinician: Documenting disease management program enrollment. *Disease Management*. 2007;10:16-29.
- 20. Gochfeld, M. Chronological history of occupational medicine. Journal of Occupational and Environmental Medicine. 2005;47(2):96-114.
- 21. Goetzel, R.Z., Guindon, A.M., Turshen, I.J., and Ozminkowski, R.J. Health and productivity management: Establishing key performance measures, benchmarks and best practices. *Journal of Occupational and Environmental Medicine*. 2001;43(1):10-7.
- 22. Goetzel, R.Z., Ozminkowski, R.J., Bruno, J.A., Rutter, K.A., Isaac, F., and Wang, S. The long-term impact of Johnson & Johnson's health and wellness program on employee health risks. *Journal of Occupational and Environmental Medicine*. 2002;44(5):417-24.
- 23. Golaszewski, T., Barr, D., and Cochran, S. An organization-based intervention to improve support for employee heart health. *American Journal of Health Promotion*. 1998;13(1):26-35.
- 24. Hunnicutt, D. Discover the power of wellness. *Business and Health*. 2001;9(3):41-5.
- 25. Institute of Medicine (IOM.) *Integrating employee health: A model program for NASA*. Washington, DC: National Academy Press; June 2005. Available at: www.iom.edu/Object.File/ Master/27/358/nasa--FINAL.pdf.
- 26. Interstate Commerce Commission (ICC). Fifth annual report of the Interstate Commerce Commission. Washington, DC: U.S. Government Printing Office; 1902.
- 27. Kessler, R.C. The effects of medical conditions on work loss and work cutback. *Journal of Occupational and Environmental Medicine*. 2001;43:218-25.
- 28. Kingery, P., Ellsworth, C., Corbett, B. et al. High-cost analysis: A closer look at the case for work-site health promotion. *Journal of Occupational and Environmental Medicine*. 1994;36(9):1341-7.
- 29. Library of Congress, Bills, Resolutions. Healthy Workforce Act of 2007. July 9, 2007. Available at: www.healthpromotionadvocates.org/legislative_priorities.htm
- 30. Loeppke, R., Taitel, M., Richling, D., Parry, T., Kessler, R.C., Hymel, P., and Konicki. D. Health and productivity as a business strategy. *Journal of Occupational and Environmental Medicine*. 2007;49:712-21.

- 31. Mercer. U.S. employers' health benefit cost continues to rise at twice inflation rate, Mercer survey finds. 2007. Available at: www. mercer.com/referencecontent.jhtml?idContent=1287790.
- 32. Richardson, E., and Fabius, R. Back to the future and beyond: Primary care at the worksite. Presentation at: IHPM Fall Conference; October 17, 2007; Scottsdale, AZ.
- 33. Schoenleber, A.W. Industrial health programs: Trends which indicate that industry is beginning to acknowledge its responsibility for the medical care of employees. *Industrial Medicine*. 1933;2:242-9.
- 34. Selleck, H.B., and Whittaker, A.H. Occupational health in America. Detroit: Wayne State University Press; 1962:537.
- 35. Serxner, S.G., Gold, D., Anderson, D., and Williams, D. The impact of worksite health promotion program on short-term disability usage. *Journal of Occupational and Environmental Medicine*. 2001;43(1):25-9.
- 36. Sherman, B., and Fabius, R. On the road to health and productivity management: Improving employee health through strategic integration. Presentation at: DMAA-NAM Joint Conference; September 17, 2007; Las Vegas, NV.
- 37. Starfield, B., Shi, L., and Macinko, J. Contribution of primary care to health systems and health. *The Milbank Quarterly*. 2005;83(3):457-502.
- 38. Starr, P. The social transformation of American medicine. New York: Basic Books; 1982:514.
- 39. Stempien, D.E., Milles, S.S., and O'Neill, F.N. The hidden savings of an on-site corporate medical center. *Journal of Occupational and Environmental Medicine*. 1996;38(10):1047-8.
- 40. Towers Perrin. Towers Perrin health cost survey projects that average annual per-employee cost for 2008 will exceed \$9,300. 2007. Available at: www.towersperrin.com/tp/showdctmdoc.jsp?url=HR_Services/United_States/Press_Releases/2007/20070924/2007_09_24. htm&language_code=global&selected=home
- 41. U.S. Census Bureau. Population of Alleghany County, PA in 1906-1907 was between 775,058 (1900 Census) and 1,018,463 (1910 Census). Population data from United States Census, Pennsylvania population of counties by decennial census: 1900-1990. 2007. Available at: www.census.gov/population/cencounts/pa190090.txt.
- 42. U.S. Department of Health and Human Services. *Healthy people* 2010: Understanding and improving health. 2nd ed. Washington, DC: U.S. Government Printing Office; 2000:76.
- 43. U.S. Department of Labor, Mine Safety and Health Administration. Coal fatalities for 1900 through 2006. 2007. Available at: www.msha. gov/stats/centurystats/coalstats.asp.
- 44. Watson Wyatt. 12th annual National Business Group on health/ Watson Wyatt survey report no. 2007-US-0031. Washington, DC: Watson Wyatt Worldwide; 2007.
- 45. Wright, D., Adams, L., Beard, M.J., et al. Comparing excess costs across multiple corporate populations. *Journal of Occupational and Environmental Medicine*. 2004;46(9):937-45.
- 46. Zenz, C., Dickerson, B., Horvath, E.P. Occupational medicine. St. Louis: Mosby; 1994:1316.
- 47. Smith A. Wealth of Nations, Raleigh, NC, Hayes Barton Press, 1956.
- 48. Hewitt Associates: *The road ahead: Emerging health trends, 2007.* Lincolnshire, IL: Hewitt; 2007.

- 1. An, A.B. Performing logistic regression on survey data with the new SURVEYLOGISTIC procedure. Cary, NC: SAS Institute; October 15, 2007. Available at: www.lexjansen.com/pharmasug/2002/proceed/sas/sas05.pdf.
- 2. Claxton, G., Gabel, J., Gil, I., et al. Health benefits in 2006: Premium increases moderate, enrollment in consumer-directed health plans remains modest. *Health Affairs*. 2006;25(6):w476-85.
- 3. Dun & Bradstreet. Million dollar databases. October 15, 2007. Available at: www.dnbmdd.com.
- 4. Eakin, J.M. Leaving it up to the workers: Sociological perspective on the management of health and safety in small workplaces. *International Journal of Health Services*. 1992;22(4):689-704.
- 5. Fielding, J.E., and Piserchia, P.V. Frequency of worksite health promotion activities. *American Journal of Public Health*. 1989;79(1):16-20.
- 6. Grosch, J.W., Alterman, T., Petersen, M.R., and Murphy, L.R. Worksite health promotion programs in the US: Factors associated with availability and participation. *American Journal of Health Promotion*. 1998;13:36-45.

- 7. Kleinbbaum, D.G., and Klein, M. Logistic regression: A self-learning text. 2nd ed. New York: Springer-Verlag; 2002.
- 8. Linnan, L., Bowling, M., Childress J, Lindsay G, Blakey C, Pronk S, Wieker S, Royall P. Results of the 2004 national worksite health promotion survey. *American Journal of Public Health 2008;98:1503-1509*
- 9. National Institute for Occupational Health and Safety (NIOSH). All NIOSH topics. Atlanta, GA: Centers for Disease Control and Prevention; October 31, 2007. Available at: www.cdc.gov/niosh.
- 10. Partnership for Prevention. Healthy workforce 2010: An essential health promotion sourcebook for employers, large and small. 2001. Available at: www.prevent.org/content/view/29/40.
- 11. Rao, J.N., and Scott, A.J. A simple method for the analysis of clustered binary data. *Biometrics*. 1992;48:577-85.
- 12. SAS Institute. SAS 9.1.3 help and documentation. Cary, NC: SAS Institute; 2002-04.
- 13. U.S. Department of Health and Human Services. 1992 national survey of worksite health promotion activities. Summary report. Washington, DC: Department of Health and Human Services, Public Health Service; 1993.
- 14. U.S. Department of Health and Human Services. 1999 national worksite health promotion activities: Summary report. Washington, DC: Department of Health and Human Services, Public Health Service; 2000:27.
- 15. U.S. Department of Health and Human Services. *Healthy people* 2010. *Understanding and improving health* and *Objectives for improving health*. 2 vols. Washington, DC: U.S. Government Printing Office; 2000:76.
- 16. Wilson, M.G., DeJoy, D.M., Jorgensen, C.M., and Crump, C.J. Health promotion programs in small worksites: Results of a national survey. *American Journal of Health Promotion*. 1999;13(6):358-65.

- 1. Association for Worksite Health Promotion, Mercer WM, Inc., and U.S. Department of Health and Human Services. 1999 worksite health promotion survey. Northbrook, IL: Association for Worksite Health Promotion; 1999.
- 2. Barbeau, E., Roelofs, C., Youngstrom, R., Sorensen, G., Stoddard, A., and LaMontagne, A.D. Assessment of occupational safety and health programs in small businesses. *American Journal of Industrial Medicine*. 2004;45:371-9.
- 3. Benedict, I., Truman, C., Smith-Akin, C.K., et al. Developing the Guide to Community Preventive Services—Overview and rationale. *American Journal of Preventive Medicine*. 2000;18(1S):18-26.
- 4. Butterfoss, G.D., Goodman, R.M., and Wandersman, A. Community coalitions for prevention and health promotion. *Health Education Research*. 1993;8(3):315-30.
- 5. Chapman, L.S. Meta-evaluation of worksite health promotion economic return studies: 2005 update. *American Journal of Health Promotion*. 2005;19(6):1-11.
- 6. Fielding, J.E., and Piserchia, P.V. Frequency of worksite health promotion activities. *American Journal of Public Health*. 1989;79:16-20.
- 7. Fronstin, P., Helman, R., and Greenwald, M. Small employers and health benefits: Findings from the 2002 small employer health benefits survey. *EBRI Issue Brief.* 2003;253:1-21.
- 8. Goetzel, R.Z. Essential building blocks for successful worksite health promotion programs. *Managing Employee Health Benefits*. 1997;6:1.
- 9. Goetzel, R.Z. Examining the value of integrating occupational health and safety and health promotion programs in the workplace. Rockville, MD: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health; 2004.
- 10. Goetzel, R.Z, Shechter, D., Ozminkowski, R.J., Marmet, P.F., Tabrizi, M.J., and Roemer, E.C. Promising practices in employer health and productivity management efforts: Findings from a benchmarking study. *Journal of Occupational and Environmental Medicine*. 2007;49:111-30.
- 11. Grosch, J.W., Alterman, T., Peterson, M.R., and Murphy, L. Worksite health promotion programs in the US: Factors associated with availability and participation. *American Journal of Health Promotion*. 2000 13:36-45.
- 12. Headd, B. The characteristics of small-business employees. *Monthly Labor Review*. 2000, July;13-8.
- 13. Heaney, C., and Goetzel, R. A review of health-related outcomes of multi-component worksite health promotion programs. *American Journal of Health Promotion*. 1998;11:290-307.

- 14. Linnan, L., Bowling, M., Childress J, Lindsay G, Blakey C, Pronk S, Wieker S, Royall P. Results of the 2004 national worksite health promotion survey. American Journal of Public Health 2008;98:1503-1509
- 15. McMahan, S., Wells, M., Stokols, D., Phillips, K., and Clitheroe, H.C. Assessing health promotion programming in small businesses. American Journal of Health Studies. 2001;17(3):20-8.
- 16. Minkler, M., and Wallerstein, N. Community based participatory research for health. 1st ed. San Francisco: Jossey-Bass; 2002:512.
- 17. National Small Business Association. NSBA survey of small and mid-sized businesses. NSBA, Washington, D.C. 2007.
- 18. O'Donnell, M., Bishop, C., and Kaplan, K. Benchmarking best practices in workplace health promotion. The Art of Health Promotion. 1997;1:12.
- 19. Ostbye, T., Dement, J.M., and Krause, K.M. Obesity and workers' compensation: Results from the Duke health and safety surveillance system. Archives of Internal Medicine. 2007;167:766-73.
- 20. Pelletier, K.R. A review and analysis of the clinical and costeffectiveness studies of comprehensive health promotion and disease management programs at the worksite: Update VI 2000-2004. Journal of Occupational and Environmental Medicine. 2005;47:1051-8.
- 21. Standard Industrial Classification Manual. U.S. Office of Management and Budget; Executive Office of the President, Washington, D.C. 1987:12.
- 22. Stokols, D., McMahan, S., and Phillips, K. Workplace health promotion in small businesses. In O'Donnell, M., ed. Health promotion in the workplace. Albany, NY: Delmar Publishers; 2001:493-518.
- 23. U.S. Bureau of Labor Statistics. Employment and wages, annual averages 2004. Available at: www.bls.gov/cew/cewbultn04.htm. (Accessed September 27, 2008).
- 24. U.S. Department of Health and Human Services. Healthy people 2010: Understanding and improving health. 2nd ed. Washington, DC: U.S. Government Printing Office; 2000. Available at: www.health.gov/ healthypeople.
- 25. U.S. Department of Health and Human Services Public Health Service. 1992 national survey of worksite health promotion activities: Summary. American Journal of Health Promotion. 1993;7(6):452-64.
- 26. U.S. Small Business Administration. Size standards. Available at: www.sba.gov/services/contractingopportunities/sizestandardstopics/index.html.
- 27. U.S. Small Business Administration Office of Advocacy. Rural and urban areas by firm size, 1990-1995. 1998. Available at: www.sba.gov/ advo/stats.
- 28. U.S. Small Business Administration Office of Advocacy. Small business growth by major industry, 1988-1995. 1998. Available at: www. sba.gov/advo/stats.
- 29. Wellness Councils of America. Seven benchmarks of success. September 21, 2007. Available at: www.welcoa.org/wwp/pdf/aa_6.1_ novdec06.pdf. (Accessed September 27, 2008).
- 30. Wells, M., Stokols, D., McMahan, S., and Clitheroe, C. Evaluation of worksite injury and illness prevention program: Do the effects of the REACH OUT Training Program reach the employees? Journal of Occupational Health Psychology. 1997;2:25-54.
- 31. Whitmer, R.W., Pelletier, K.R., Anderson, D.R., Baase, C.M., and Frost, G.J. A wake-up call for corporate America. Journal of Occupational and Environmental Medicine. 2003;45:916-25.
- 32. Wiatrowski, W.J. Small businesses and their employees. Monthly Labor Review. 1994, October;29-35.
- 33. Wilson, M.G., DeJoy, D.M., Jorgensen, C.M., and Crump, C.J. Health promotion programs in small worksites: Results of a national survey. American Journal of Health Promotion. 1999;13(6):358-65.

- 1. Health Insurance Portability and Accountability Act of 1996.
- 2. If an employer-sponsored health plan fails to comply with HIPAA, the employer ultimately will be liable for paying civil and criminal penalties. Moreover, employees may sue the employer in its capacity as plan administrator in the event the employer breaches its fiduciary duties under ERISA by using or sharing health information in a manner that violates the privacy rules.
- 3. Staff health care providers often provide only first aid treatment and education. Usually, they do not perform any of the standard transactions electronically. They do not submit claims or report health care encounters to any HIPAA-covered health plan. Nor do they inquire about claim status or request eligibility information from any HIPAAcovered health plan for purposes related to the health services they

- provide. Although a staff health care provider might submit a first report of injury to the workers' compensation program, there is no standard in place for this transaction.
- 4. HIPAA defines a group health plan as an ERISA welfare benefits plan "to the extent that the plan provides 'medical care' (as defined in PPHSA Section 2791(a)(2)) to employees or their dependents. . . ." Medical care is defined as "the diagnosis, cure, mitigation, treatment or prevention of disease, or amounts paid for the purpose of affecting any structure of the body." (1) U.S. Code §213 uses this same definition and has been interpreted to consider fitness centers as organizations that merely support good health and do not treat illnesses.
- 5. Section 164.506(c)(5) permits covered entities that participate in an OCHA to share information for any health care operation activities of the OCHA.
- 6. The preamble states that the OCHA provisions "define the arrangements between health plans and health insurance issuers or HMOs as OCHAs, which are permitted to share information for each other's health care operations. Such disclosures also may be made to a broker or agent that is a business associate of the health plan." Federal Register. August 14, 2003;68:53217.
- 7. Section 164.501.
- 8. ERISA Section 702 and U.S. Tax Code Section 9802. A group health plan, and a health insurance issuer offering group health insurance coverage in connection with a group health plan, may not establish rules for eligibility (including continued eligibility) of any individual to enroll under the terms of the plan based on any factors related to health status in relation to the individual or a dependent of the individual—ERISA Section 702(a)(1). A group health plan or a health insurance issuer offering group health insurance coverage in connection with a group health plan may not require any individual (as a condition of enrollment or continued enrollment under the plan) to pay a premium or contribution that is greater than such premium or contribution for a similarly situated individual enrolled in the plan on the basis of any factor related to health status in relation to the individual or to an individual enrolled under the plan as a dependent of the individual—ERISA Section 702(b)(1).
- 9. 26 CFR Section 54.9802-1(f)(2).
- 10. HIPAA expressly states that the nondiscrimination rules do not require employers to provide any additional benefits and do not prevent employers from creating limits or restrictions on the "amount, level, extent or nature of the benefits or coverage for similarly situated individuals enrolled in the plan." ERISA Section 702(a)(2) and (b)(2).
- 11. The nondiscrimination rules state that a plan amendment that limits benefits is not considered to be directed at any individual participants or beneficiaries if (1) it is applicable to all individuals in one or more groups of similarly situated individuals under the plan and (2) it becomes effective no sooner than the first day of the first plan year after the amendment is adopted. Labor Regulation §2590.702(b) (2)(i)(C); U.S. Code §54.9802-1T(b)(2)(i)(C).
- 12. Americans with Disabilities Act of 1990, 42 U.S. Code §12112(a), (b).
- 13. EEOC Compliance Manual, Chapter 3, ADA Issues §I.
- 14. Templet v Blue Cross/Blue Shield of Louisiana, LEXIS 15605 (U.S. Dist. 2000).
- 15. 42 U.S. Code §12201(c)(1).
- 16. 42 U.S. Code §12201(c)(1); 42 U.S. Code §12201(c)(2), (3); See Barnes v. The Benham Group, Inc., 22 F.Supp.2d 1013 (Minnesota 1998).
- 17. 42 U.S. Code §(d)(4)(A).
- 18. U.S. Equal Employment Opportunity Commission. Enforcement guidance: Disability-related inquiries and medical examinations of employees under the Americans with Disabilities Act (ADA). July 27, 2000. Available at: www.eeoc.gov/policy/docs/guidance-inquiries. html. Questionnaires about behavior, such as eating, physical activity, and sleeping habits, are not medical inquiries.
- 19. id.
- 20. U.S. Code §213(d).
- 21. Earles, A.C. Legal considerations for employer-sponsored health improvement and incentive programs. Washington, D.C., National Business Group on Health; 2007.

- 1. Bridgman, P., and Glyn, D. The Australian policy handbook. Crows Nest, New South Wales: Allen & Unwin; 2004.
- 2. GovTrack.us. S. 1753: Healthy Workforce Act of 2007. 2007. Available at: www.govtrack.us/congress/bill.xpd?bill=s110-1753.

- 4. Lee, T.H., and Kinga, Z. Do high-deductible health plans threaten quality of care? New England Journal of Medicine. 2005;(12) 353:1202-
- 5. Mahoney, J.J., and Hom, D. BeneFIT design. Seven steps for creating value-based benefit decisions. Philadelphia: GlaxoSmithKline; 2007.
- 6. Mahoney, J.J., and Hom, D. *Total Value/Total Return™: Seven rules for optimizing employee health benefits for a healthier and more productive workforce.* Philadelphia: GlaxoSmithKline; 2006.
- 7. Merriam-Webster Online. 2008. Available at: www.m-w.com/dictionary.
- 8. Partnership for Prevention. Healthy workforce 2010: An Essential Health Promotion Sourcebook for Employers, Large and Small. 2008 Partnership for Prevention, Washington, D.C.. Available at: http://www.prevent.org/images/stories/Files/publications/Healthy_Workforce_2010.pdf.
- 9. Partnership for Prevention. Leading by Example. Leading practices for employee health management. 2005. Available at: www.prevent. org/content/view/30/57/
- 10. Partnership for Prevention. Why invest? Recommendations for improving your prevention investment. 2007. Available at: www.prevent.org/images/stories/PDF/whyinvest_web_small.pdf.
- 11. U.S. Department of Health and Human Services. Office for Civil Rights—HIPAA. Medical privacy—National standards to protect the privacy of personal health information. 1996. Available at: www.hhs. gov/ocr/hipaa.
- 12. U.S. Department of Justice. Americans with Disabilities Act. 1990. Available at: www.ada.gov.
- 13. U.S. Department of Labor. Bloodborne pathogens and needlestick prevention. OSHA standards. 2001 Available at: www.osha.gov/SLTC/bloodbornepathogens/standards.html.
- 14. U.S. Department of Labor. Family and Medical Leave Act. 1993. Available at: www.dol.gov/esa/whd/fmla.
- 15. U.S. Department of Labor. Occupational Safety and Health Administration. 2008. Available at: www.osha.gov.
- 16. U.S. Department of Transportation. Office of Drug and Alcohol Policy and Compliance. 2008. Available at: www.dot.gov/ost/dapc/index.html.
- 17. Wikipedia. Policy: Intended effects. 2008. Available at: http://en.wikipedia.org/wiki/Policy#Intended_Effects.
- 18. Wikipedia. Policy: Policy cycle. 2008. Available at: http://en.wikipedia.org/wiki/Policy#Policy_cycle.
- 19. World Research Group. Rewarding healthy behaviors for health plans. Calculating ROI for preventive care through health risk assessments, disease management and wellness. World Research Group Conference; January 23, 2007; Grosvenor Resort, Lake Buena Vista, FL.

- 1. Aldana, S.J., and Pronk, N.P. Health promotion programs, modifiable health risks, and employee absenteeism. *Journal of Occupational and Environmental Medicine*. 2001;43:36-46.
- 2. Anderson, D.R., and Staufacker, M.J. The impact of worksite-based health risk appraisal on health-related outcomes: A review of the literature. *American Journal of Health Promotion*. 1996;10:499-508.
- 3. Bartlett, C.J., and Coles, E.C. Psychological health and well-being: Why and how should public health specialists measure it? Part 2: Stress, subjective well-being and overall conclusions. *Journal of Publice Health Medicine*. 1998;20:288-94.
- 4. Bondi, M.A., Harris, J.R., Atkins, D., French, M.E., and Umland, B. Employer coverage of clinical preventive services in the United States. *American Journal of Health Promotion*. 2006;20:214-22.
- 5. Braithwaite, R.S., and Rosen, A.B. Linking cost sharing to value: An unrivaled yet unrealized public health opportunity. *Annals of Internal Medicine*. 2007;146:602-5.
- 6. Burton, W.N., Chen, C.-Y., Conti, D.J., Schultz, A.B., and Edington, D.W. The association between health risk change and presenteeism change. *Journal of Occupational and Environmental Medicine*. 2006;48:252-63.
- 7. Burton, W.N., Chen, C.-Y., Conti, D.J., Schultz, A.B., Pransky, G., and Edingron, D.W. The association of health risks with on-the-job productivity. *Journal of Occupational and Environmental Medicine*. 2005;47:769-77.

- 8. Centers for Disease Control and Prevention. Task Force on Community Preventive Services. *The guide to community preventive services: What works to promote health?* New York: Oxford University Press; 2005.
- 9. Christensen, K.B., Lund, T., Labriola, M., Bultmann, U., and Villadsen, E. The impact of health behavior on long term sickness absence: Results from DWECS/DREAM. *Industrial Health*. 2007;45:348-51.
- 10. Edington, D.W. Emerging research: A view from one research center. *American Journal of Health Promotion*. 2001;15:341-9.
- 11. Evans, S., Huxley, P., Gately, C., et al. Mental health, burnout and job satisfaction among mental health social workers in England and Wales. *British Journal of Psychiatry*. 2006;188:75-80.
- 12. Fronstin, P. Health promotion and disease prevention: A look at demand management programs. *EBRI Issue Brief.* 1996;177:1-14.
- 13. Goetzel, R.Z., Guindon, A.M., Turshern, I.J., and Ozminkowski, R.J. Health and productivity management: Establishing key performance measures, benchmarks, and best practices. *Journal of Occupational and Environmental Medicine*. 2001;43:10-7.
- 14. Goetzel, R.Z., Hawkins, K., Ozminkowski, R.J., and Wang, S. The health and productivity cost burden of the "top 10" physical and mental health conditions affecting six large U.S. employers in 1999. *Journal of Occupational and Environmental Medicine*. 1999;45:5-14.
- 15. Hennikus, D.J., Jeffery, R.W., Lando, H.A., et al. The SUCCESS project: The effect of program format and incentives on participation and cessation in worksite smoking cessation programs. *American Journal of Public Health*. 2002;92: 274-9.
- 16. Hudson, L.R., and Pope, J.E. The role of health-risk appraisals in disease management. *Managed Care Interface*. 2006;19:43-5.
- 17. Hunt, M.K., Stoddard, A.M., Kaphingst, K.A., and Sorensen, G. Characteristics of participants in a cancer prevention intervention designed for multiethnic workers in small manufacturing worksites. *American Journal of Health Promotion*. 2007;22:33-7.
- 18. Institute of Medicine (IOM). Integrating employee health: A model program for NASA. Washington, DC; National Academies Press; 2005.
- 19. Kane, R.I., Johnson, P.E., Town, R.J., and Butler, M. A structured review of the effect of economic incentives on consumers' preventive behavior. *American Journal of Preventive Medicine*. 2004;27:327-52.
- 20. Kanner, A.D., Coyne, J.C., Schaefer, C., and Lazarus, R.S. Comparison of two modes of stress measurement: Daily hassles and uplifts versus major life events. *Journal of Behavioral Medicine*. 1981;4:1-39.
- 21. Karasek, R., Brisson, C., Kawakami, N., Houtman, I., Bongers, P., and Amick, B. The Job Content Questionnaire (JCQ): An instrument for internationally comparative assessments of psychosocial job characteristics. *Journal of Occupational Health Psychology.* 1998;3:322-55.
- 22. Leon, K.A., Hyre, A.D., Ompad, D., DeSalvo, K.V., and Munter, P. Percieved stress among a workforce 6 months following hurricane Katrina. *Social Psychiatry and Psychiatric Epidemiology*. 2007; 42(12):1005-11.
- 23. Lundborg, P. Does smoking increase sick leave? Evidence using register data on Swedish workers. *Tobacco Control.* 2007;16:114-8.
- 24. Mills, P.R., Kessler, R.C., Cooper, J., and Sullivan, S. Impact of a health promotion program on employee health risks and work productivity. *American Journal of Health Promotion*. 2007;22:45-53.
- 25. National Institute of Occupational Safety and Health (NIOSH). Steps to a healthier U.S. workforce. 2004. Available at: www.cdc.gov/niosh/worklife/steps/default.html.
- 26. Nomura, K., Nakado, M., Sato, M., Ishikawa, H., and Yano, E. The association of the reporting of somatic symptoms with job stress and active coping among Japanese white-collar workers. *Journal of Occupational Health*. 2007; 49(5):370-5.
- 27. Pronk, N.P. Building partnerships between mature worksite health promotion programs and managed care. In: Cox, C., ed. *ACSM's worksite health promotion manual: A guide to building and sustaining healthy worksites*. Champaign, IL: Human Kinetics; 2003:89-97.
- 28. Schoenbach, V.J., Wagner, E.H., and Beery, W.L. Health risk appraisal: Review of evidence for effectiveness. *Health Services Research*. 1987;22:553-80.
- 29. Solberg, L.I., Mosser, G., and McDonald, S. The three faces of performance measurement: Improvement, accountability, and research. *Joint Commission Journal on Quality Improvement* 1997;23:135-47.
- 30. Sorensen, G. Smoking cessation at the worksite: What works and what is the role of occupational health? In: National Institute for Occupational Safety and Health (NIOSH), ed. *Work, smoking, and health, a NIOSH scientific workshop.* Washington, DC: NIOSH; 2000:99-120. USDHHS (NIOSH) publication no. 2002-148.