

**Name:** Martin Richard Frankel  
**Profession:** Principal Associate/Senior Scientist  
**Years Associated with Firm:** 10

## Education

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Ph.D., University of Michigan, Mathematical Sociology, 1971.  
M.A., University of Michigan, Mathematical Statistics, 1967.  
A.B., University of North Carolina, Mathematics, 1965.

## Relevant Professional Experience

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### Experience with Abt Associates Inc.

- 2005–present **Racial and Ethnic Approaches to Community Health (REACH) 2010: A Continuing Evaluation.** Abt Associates has been awarded a five-year \$15.6 million contract to help carry out a major initiative aimed at reducing health disparities among racial and ethnic minorities—Phases 6 through 15 of the Racial and Ethnic Approaches to Community Health (REACH) 2010 Risk Factor Survey. REACH 2010 was launched in 1999 by the National Center for Chronic Disease Prevention and Health Promotion, part of the Centers for Disease Control and Prevention (CDC). It focuses on community-based initiatives and interventions to improve the rates of infant mortality, breast and cervical cancer, cardiovascular disease and stroke, diabetes, HIV/AIDS, and immunization in minority populations. The objectives of the REACH 2010 Risk Factor Survey are to monitor health outcomes in selected communities and to facilitate evaluation of REACH 2010 interventions. (Client: Centers for Disease Control and Prevention).
- 2005–present **Methods Consultation for the Development of Large National HIV Morbidity Monitoring Surveillance Project.** (Client: the Rand Corporation) This project involves helping the Centers for Disease Control and Prevention create a nationally representative sample of people under treatment for HIV. The sample will be drawn in 24 states, with a total sample size of over 10,000. The survey will be conducted annually by the states, with funding from CDC. It is a continuation of the HIV Cost and Services Utilization Study, which was begun in the 1990s. Assist CDC in developing and implementing a national probability sample to monitor current treatments and controls for the HIV epidemic.
- 2004–present **Sampling Statistician. Behavioral Risk Factor Surveillance System.** (Client: Centers for Disease Control and Prevention.) As the largest state-based random-digit-dialing telephone health survey, the Behavioral Risk Factor Surveillance System (BRFSS) is confronted with the issue of nonresponse bias and the associated questions of reliability and validity of the data collected. CDC contracted with Abt Associates to accomplish the following goals: Improve state-level BRFSS response rates through the use of a mail survey with a representative, state-based adult population sampling frame. Close the gap in participation among traditionally under-represented groups (e.g., speakers of languages other than English or Spanish). Examine the impact on nonresponse on BRFSS estimates, and develop techniques to minimize its impact in the weighting and estimation process. Provide technical oversight and methodological guidance for all tasks. Participate in the design of all research, and review all programming plans and specifications, data collection protocols, analysis and output, and reports.
- 1996–2005 **Sampling Statistician. National Immunization Survey (NIS).** This large random-digit-dialed telephone survey, which began in 1994, has become the primary source of information on vaccination coverage among children aged 19 to 35 months in the U.S. Its quarterly data yield

annualized estimates for the 50 states and for 28 metropolitan areas of the U.S. National estimates appear semiannually in *Morbidity and Mortality Weekly Report*. Abt Associates conducted the NIS from its inception in 1994 through 2005, under two successive contracts. Using Abt Associates' computer-assisted telephone interviewing system, the survey annually screened approximately 1 million households, and completed interviews for approximately 31,500 age-eligible children. With the consent of parents and guardians the NIS also contacted the children's immunization providers (by mail) to request a complete vaccination history from the child's medical records. This phase of the survey obtained adequate provider data for about 22,000 children per year. Data from providers are critical to producing accurate estimates of vaccination coverage. The household and provider data formed the basis for a public-use file, accompanied by documentation for data users, for each year of the survey. (Client: National Immunization Program and National Center for Health Statistics, Centers for Disease Control and Prevention) Responsible for complex sample design, weighting and variance estimation, and for methodological research. Team leader in developing a methodology for correcting for non-telephone bias in telephone surveys through weighting by telephone interruption information.

2002–2005 **Senior Sampling Statistician. SLAITS National Survey of Children's Health.** SLAITS (the State and Local Area Integrated Telephone Survey) integrates a number of discrete studies, primarily on children's health topics, into the overall mechanism for conducting the National Immunization Survey (NIS). The NIS is described immediately above. The SLAITS National Survey of Children's Health (NSCH) was designed to assess children's health and well-being, health care coverage and access, and the extent to which these children have a medical home. A pilot test of approximately 1,000 telephone interviews was conducted in 16 states during June 2002. Data collection for the main study was conducted from February 2003 through July 2004. For each of the 50 states and the District of Columbia, the survey sampled approximately 2,000 children under the age of 18. Questionnaire topics included: health and functional status, health care coverage, health care access and utilization, medical home, child well-being, family functioning and parental health, and neighborhood characteristics. (Client: Maternal and Child Health Bureau, Health Services and Resources Administration) Responsible for sampling and weighting oversight.

2001–2004 **Senior Sampling Statistician. SLAITS National Asthma Survey.** The SLAITS National Asthma Survey (NAS) is designed to provide information regarding the health, socioeconomic, behavioral, and environmental predictors that relate to better control of asthma, as well as to determine detailed prevalence rates by various demographic characteristics on the state and national levels. The study will also help to characterize the content of care for, and limitations of, persons with asthma. After extensive pretesting in 2000 through 2002, the NAS was conducted from February 2003 through February 2004 using a national sample and state samples for California, Alabama, Texas, and Illinois. Approximately 10,000 households were screened nationally and 11,000 households were screened in each of the four states to complete approximately 1,300 detailed asthma interviews each. (Client: National Center for Environmental Health) Responsible for sampling and weighting oversight.

2000–2002 **Sampling Statistician. SLAITS Children with Special Health Care Needs Survey.** SLAITS (the State and Local Area Integrated Telephone Survey) integrates a number of discrete studies, primarily on children's health topics, into the overall mechanism for conducting the National Immunization Survey (NIS). The NIS is a very large-scale, national random-digit-dial telephone survey. The SLAITS National Survey of Children with Special Health Care Needs was designed to produce prevalence estimates of children with special health care needs, describe the types of services that they need and use, assess shortcomings in the system of care for special needs children and provide estimates of health care coverage for all children. The survey provided state-level estimates collected in a manner that allowed for comparisons across

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states and nationally. Data were collected in each of the 50 states and the District of Columbia, from parents of approximately 750 children under age 18. Health insurance and demographic data were obtained from control samples of children without special health care needs (approximately 3,457 per state). A Low Income Uninsured Supplement module was administered to households having a sampled child who was uninsured and whose family income was below 200% of the Federal poverty level, in order to understand reasons why such children were not enrolled in the State Children's Health Insurance Program (S-CHIP). A computer-assisted telephone interviewing (CATI) system was used to collect the data between October 2000 and April 2002. These interviews were completed: 373,055 screening interviews with households having children; 38,866 interviews regarding children with special health care needs; 176,296 health insurance control sample interviews; and 9,935 Low Income Uninsured Supplement module interviews. (Client: Maternal and Child Health Bureau, Health Services and Resources Administration.) Responsible for sampling and weighting oversight.

1996–2002      **Sampling Statistician. Infant Immunization Initiative.** Abt Associates applied the National Immunization Survey (NIS) estimation procedures to two San Diego County RDD surveys of children age 19-35 months, and provider record check surveys. A base sampling weight was computed. Poststratification techniques were used to adjust for unit nonresponse and noncoverage of nontelephone households. The two-phase sample structure was then used to develop provider-adjusted estimates of vaccination coverage for each survey. (Client: San Diego State University Foundation.)

#### Other Professional Experience

1980–present      **Professor of Statistics and Computer Information Systems, Baruch College, City University of New York, New York, NY.**

1988–1996      **Senior Statistical Scientist, National Opinion Research Center (NORC), Chicago, IL.**

1985–1996      **Research Associate, Methodology Research Center, National Opinion Research Center (NORC), Chicago, IL.**

#### Papers, Publications, Presentations

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##### Books

*Inference from Survey Samples: An Empirical Investigation.* Ann Arbor: The Institute for Social Research, The University of Michigan, 1971. (Currently in 4th printing.)

*SEPP: Sampling Error Program Package.* Ann Arbor: The Institute for Social Research, The University of Michigan, 1972. (with L. Kish and N. Van Eck)

*Total Survey Error: Applications to Improve Health Surveys.* San Francisco: Jossey-Bass, 1979. (with R. Andersen and J. Kasper)

##### Chapters in Books

Martin R. Frankel and Lester R. Frankel. "Probability Sampling," in Robert Ferber, Ed. *Handbook Marketing Research.* New York: McGraw Hill, 1974. p. 230-246.

Martin R. Frankel and Lester R. Frankel, "Some Recent Developments in Survey Sample Design," in Jain, A.K. et. al., Eds. *Marketing Research: Applications and Problems.* New York: John Wiley & Sons, 1982.

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Martin R. Frankel, "Probability Sampling," in Rossi and Andersen, Eds. *Handbook of Survey Research*. New York: Academic Press, 1983. p. 21-67.

Martha J. Banks, Ronald Andersen, Martin R. Frankel, "Total Survey Error," in *Incomplete Data In Sample Surveys Vol. 1, Pt. II*. New York: Academic Press, 1983.

Martin R. Frankel, "Master Samples" in Kotz and Johnson, *Encyclopedia of Statistical Sciences*, John Wiley and Sons, 1985, 285.

"Going to the Oracle for Strategic Planning: The Delphi Process," in Glass, H. E. ed. *Handbook of Business Strategy (1988/1989 Yearbook)* Boston: Warren, Gorham & Lamont, 1989. (with D. Kudon)

"The Effect of Interviewer Characteristics and Expectations on Response," *Survey Research Methods*, Singer, E. and Presser, S. eds. 1989 (with E. Singer and M Glassman).

"Statistical Design and Estimation: Discussion," in Kasprzyk et. al. eds. *Panel Surveys*, New York: John Wiley & Sons, 1989.

"Forecasts in Strategic Planning," in Glass, H., ed. *Handbook of Business Strategy, Second Edition*, Boston: Warren, Gorham & Lamont, 1991. (with D. Kudon)

Martin R. Frankel, "Resampling Procedures for Sample Surveys," in Hall, John, ed. *Encyclopedia of Biostatistics*, London: John Wiley and Sons, 1998.

#### **Selected Articles**

H. Taylor and M. R. Frankel, "Suicide Highest in Wide-Open Spaces," *American Demographics*, 14(4) April, 1992 p.9.

Robert J. Blendon, Karen Donelan, Carole VanDeusen Lucas, Kenneth E. Thorpe, Martin Frankel, Ronald Bass, Humphrey Taylor, "The Uninsured and the Debate Over the Repeal of the Massachusetts Universal Health Care Law," *Journal of the American Medical Association*, 267(8), 1992 1113-1117.

J. R. Friedman, X.Q. Guo, M. S. Lubell and M. R. Frankel, "Reexamination of tests of the Wannier threshold law for two-electron escape," *Physical Review A*, 46(1), July 1, 1992, 652-655.

Richard F. Mollica, Karen Donelan, Svang Tor, James Levelle, Christopher Elias, Martin Frankel and Robert J. Blendon, "The Effect of Trauma and Confinement on Functional Health and Mental Health Status of Cambodians Living in Thailand-Cambodia Border Camps" *Journal of the American Medical Association*, August 4, 1993, Vol. 270. Pp. 581-586

Leslie Kish, Martin R. Frankel, Vijay Verma and Niko Kaciroti, "Design Effects for Correlated ( $\pi_i - \pi_j$ )" *Survey Methodology*, Vol. 21, No.2 December 1995. 117-124.

Karen Donelan, Robert J. Blandon, Craig Hill, Catherine Hoffman, Diane Rowland, Martin Frankel and Drew Altman, "Whatever Happened to the Health Insurance Crisis in the United States?" *Journal of the American Medical Association*, October 23/30 1996, Vol. 276. Pp. 1346-1350.

Martin Frankel and Benjamin King, "A Conversation with Leslie Kish," *Statistical Science*, 1996, Vol. 11, No. 1, 65-87.

Joseph J. Marbach, Geraald T. Ballard, Martin R. Frankel and Karen G. Raphael, "Patterns of TMJ Surgery: Evidence of Sex Differences," *Journal of the American Dental Association*, Vol. 128, May 1997, 609-614.

Carroll Seron, Martin Frankel, Douglas Muzzio, et.al., "A Report of the Perceptions and Experiences of Lawyers, Judges, and Court Employees Concerning Gender, Racial and Ethnic Fairness in the Federal Courts of the Second Circuit of the US," *Annual Survey of American Law*, New York University School of Law, 1997 Vol, Issues 1 and 2, 415-527.

Yael Caspi, Charles Poole, Richard F. Mollica and Martin Frankel, "Relationship of Child Loss to Psychiatric and Functional Impairment in Resettled Cambodian Refugees," *The Journal of Nervous and Mental Disease*, Vol. 186, No. 8., August 1998, 484-491.

Samuel A. Bozzette, Sandra H. Berry, Naihua Duan, Martin R. Frankel, et.al., "The Care of HIV-Infected Adults in the United States," *New England Journal of Medicine*, Volume 339, No. 26, Dec. 24, 1998, 1897-1904.

Gifford DG, Holloway RG, Frankel M, Albright CL, Meyerson R, Griggs R, Vickrey BG "A randomized trial to implement practice recommendations. Design and Methods of the Dementia Care Study," *Controlled Clinical Trials*, Vol 20, 1999, 369-385.

David R. Gifford, Robert G. Holloway, Martin R. Frankel et.al, "Improving Adherence to Dementia Guidelines through Educational and Opinion Leaders, A Randomized, Controlled Trial," *Annals of Internal Medicine*, Vol. 131, No. 4, Aug. 17, 1999, 237-246.

Martin R. Frankel, Martin F. Shapiro, Naihua Duan, et.al., "National Probability Samples in Studies of Low-Prevalence Diseases. Part II: Designing and Implementing the HIV Cost and Services Utilization Study Sample," *Health Services Research* Vol 34, No 5, Part I (December, 1999), p. 969-992. One of Three Papers Selected by Association for Health Services Research Article of the Year Award: 2000.

Marc L. Berk, Claudia L. Schur, Leo R. Chaves and Martin Frankel, "Health Care Use Among Undocumented Latino Immigrants," *Health Affairs*, Vol 19, No. 4 July/August 2000, 51-64.

Trena M. Ezzati-Rice, Martin R. Frankel, David C. Hoaglin, John D. Loft, Victor G. Coronado, and Robert A. Wright, "An Alternative Measure of Response Rate in Random-Digit-Dialing Surveys That Screen for Eligible Subpopulations," *Journal of Economic and Social Measurement* 26, 2000, pp. 99-109.

Martin R. Frankel, K.P. Srinath, David C. Hoaglin, Michael P. Battaglia, Philip J. Smith, Robert A. Wright, and Meena Khare, "Adjustments for Nontelephone Bias in Random-Digit-Dialing Surveys," *Statistics in Medicine*, in press.

#### **Referee/Reviewer for Professional Journals**

*Journal of the American Statistical Association.*

*Annals of Mathematical Statistics.*

*American Journal of Sociology.*

*American Sociological Review.*

*Public Opinion Quarterly.*

*Journal of Marketing Research.*

#### **Memberships \_\_\_\_\_**

Chair, Committee on Standards, American Association for Public Opinion Research, (1988-89).

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Chair, Research Quality Council, Advertising Research Foundation, 1988-present.  
Member, Panel on Occupational Safety and Health Statistics, National Academy of Sciences, 1986-1987.  
Member, Editorial Board, *Sociological Methods & Research*, 1979-1983.  
Associate Editor, *Journal of the American Statistical Association*, 1973-1981.  
Chairman, American Statistical Assn., Advisory Committee to the U.S. Census, 1981 (member 1975-1981).  
Chairman, Subsection on Survey Research Methods, American Statistical Association (1975-6).  
Fellow, Royal Statistical Society.  
Fellow, American Statistical Association.  
Member, International Statistical Institute.  
Member, Editorial Board, *Public Opinion Quarterly* (1979-1983, 1985-present).  
Member, Editorial Board, *Encyclopedia of Statistical Sciences*, John Wiley & Sons, 1980-present.  
President, Market Research Council 1995-96.  
Biography, *Who's Who in America, 46th Edition*, 1990.