

POSITION: Academic Administrator VI
Department of Epidemiology and Biostatistics, UCSF
Chief, Surveillance and Epidemiology Section
California DHS STD Control Branch

EMPLOYMENT ADDRESS: Sexually Transmitted Disease Control Branch
850 Marina Bay Parkway
Building P, 2nd Floor
Richmond, CA. 94804-6403
phone: (510) 620-3198; FAX: (510) 620-3180
email: msamuel@dhs.ca.gov

RESIDENCE: 921 Sousa Drive
Walnut Creek, CA 94597

EDUCATION:

B.S. - Conservation and Resource Studies, March 1982, with Honors; University of California, Berkeley
Emphasis on Political Economy of Food, Agriculture and Nutrition
M.P.H. - Biostatistics, May 1987; University of California, Berkeley
Dr.P.H. - Biostatistics/Epidemiology, May 1992; University of California, Berkeley
Dissertation: Sexual Practices and Risk of Human Immunodeficiency Virus Infection among Men in San Francisco

EMPLOYMENT:

California Department of Health Services, Sexually Transmitted Disease Control Branch, Berkeley, California;
Chief, Surveillance and Epidemiology Section; 3/01-present;

Management of Surveillance and Epidemiology Units; oversight of systems for collection, analysis, and dissemination of data on sexually transmitted diseases in California; advise and support uses of these data for statewide prevention and other programmatic activities; data analysis and presentation; collaboration with county and other local partners; teaching and course development; outbreak investigation; supervision.

California Emerging Infections Program (CEIP), Oakland, California;

Medical Epidemiologist, Foodborne Diseases Active Surveillance Network (FoodNet); 9/98 - 2/01

Analysis of surveillance and outbreak data; investigation of outbreaks; design and implementation of national, multi-site investigations; consultation and instruction on design, analysis, and presentation of epidemiologic research; preparation of manuscripts and reports.

New Mexico Department of Health, Office of Epidemiology, Santa Fe, New Mexico:

Program Manager, HIV/AIDS Epidemiology Program; 10/92 - 9/98

Coordination of statewide AIDS and HIV surveillance; collection, organization and analysis of data; dissemination of results; planning for HIV services and prevention; design and implementation of studies; authorship of reports; supervision; public speaking; management of federal and state budgets; analysis and testimony for New Mexico state legislature; participation on statewide infectious disease surveillance and control team; consultation on statistical and epidemiologic methods and computer applications; supervision.

Swiss Federal Office of Public Health, Bern, Switzerland:

Director, AIDS Epidemiology Unit; 2/88-1/89

Organization and automation of AIDS/HIV surveillance epidemiology system; preparation of papers; supervision.

Epidemiology Program, University of California, Berkeley:

Research Assistant; 1/89-9/92 & 5/85-2/88

Statistical analysis and preparation of scientific papers for the San Francisco Men's Health Study, a prospective study of the epidemiology and natural history of HIV/AIDS.

Biostatistics Program, University of California, Berkeley:

Teaching Assistant; 7/86-12/86 & 7/87-12/87

Introductory health statistics, & introductory probability and statistics for the biological sciences

Institute for Food and Development Policy, San Francisco:

Administrative Assistant; 6/82-8/83

Public relations, volunteer coordination, maintenance of research library, and public speaking.

ACADEMIC:

School of Public Health, University of California, Berkeley: Lecturer; 6/99-present

Conduct seminar series on visual display of data; teach course on visual display of data using R at the Center for Infectious Disease Preparedness; assist with instruction of outbreak investigation course;

Department of Family and Community Medicine, University of New Mexico: Clinical Assistant Professor; 8/95-9/98

Lectured in courses on epidemiologic methods, HIV/AIDS epidemiology, and infectious diseases; developed and conducted a seminar series on the visual display of epidemiologic data; collaborated on research.

COMPUTER SKILLS:

- DOS, Windows, UNIX, and CMS operating systems
- SPSS, S-plus, SAS, STATA, Statgraphics, EpiInfo, Gauss and Epistat statistical packages
- Pascal, FORTRAN, and Basic languages
- HTML; WEB page development
- presentation graphics using Harvard Graphics, R, S-plus, AXUM, MS Publisher, PowerPoint
- WordPerfect, Word and troff/tbl/eqn (UNIX) text processors
- Quatro Pro, Excel, and Lotus spreadsheets

CONSULTING:

The Future of HIV/AIDS Surveillance; Council of State and Territorial Epidemiologists and Centers for Disease Control and Prevention, The Carter Center, Atlanta: May 21-22, 1997

Helped facilitate consultation on HIV reporting, sampling, and other aspects of HIV/AIDS surveillance in the US.

World AIDS Foundation, Jos, Nigeria: April 1997

Taught course on microcomputer applications and statistical methods to Nigerian professionals involved with HIV/AIDS research and prevention.

Department of Epidemiology, U.C. Berkeley: 6/89-9/92

Center for AIDS Prevention Studies, U.C. San Francisco: summer 1991 and 1992

Development and teaching of a microcomputer and biostatistics course for Fogerty International (NIH) AIDS Training Program.

World Health Organization, Geneva, Switzerland: 6/88-1/89

Development of "AIDS Calculator" AIDS projection program for Global Program on AIDS.

INTERNATIONAL EXPERIENCE (above and):

- El Salvador; 9/92 (lead mini-course on microcomputers and AIDS)
- Zimbabwe; 2/91 (lead workshop on HIV/AIDS surveillance)
- Nicaragua; 7/87, 12/89 (technical volunteer at the UNAN medical school in Managua)
- Southern Africa; 1/84-7/84 (volunteer on refugee and agricultural development projects)

MEMBERSHIPS:

Society for Epidemiologic Research (1992)

American Public Health Association (1986)

New Mexico Public Health Association (1993-1998)

Committee for Health in Southern Africa (1987-1992)

AWARDS:

1992 Warren Winkelstein Student Award

COMMITTEE/PANEL APPOINTMENTS:

Governor's Task Force on HIV/AIDS, New Mexico (1992-1998)

CDC Prevention Planning External Review Committee (1995)

PUBLICATIONS:

Articles:

1. Winkelstein W Jr, Lyman DM, Padian N, Grant RD, Samuel M, Wiley J, et al. Sexual practices and risk of infection by the AIDS-associated retrovirus: The San Francisco Men's Health Study. *JAMA* 1987; 257:321-325.
 - 1B. -reprinted in *JAMA-India*, 1987, 1:118-126.
 - 1C. -reprinted in *JAMA-Japan*, 1987, 8:27-30.
 - 1D. -reprinted in *JAMA-Southeast Asia*, 1987, 8:45-49.
2. Winkelstein W Jr, Samuel M, Padian N, Wiley J, Lang W, Anderson R, et al. Reduction in human immunodeficiency virus transmission among homosexual/bisexual men in San Francisco, 1982-1986: The San Francisco Men's Health Study, III. *American Journal of Public Health* 1987;76(9):685-689.
 - 2B. -summarized in *The Year Book of Medicine* 1988, page 10. (Summary of 1987 *AJPH* article.)
3. Winkelstein W Jr, Samuel M, Padian N, Wiley J, Lang W, Levy J. On HIV transmission in homosexual/bisexual men: Response from Winkelstein et al. *American Journal of Public Health* 1987; 77(12):1552-1553.
4. Winkelstein W Jr, Wiley J, Padian N, Samuel M. et al. The San Francisco Men's Health Study: Continued decline in HIV seroconversion rates among homosexual men. *Am J Public Health* 1988; 11:1472-1474.
5. Samuel M, Engel R, Somaini B, Gurtner F, Billo N. Beschreibende Epidemiologie von AIDS und HIV-Infektionen in der Schweiz (Descriptive epidemiology of AIDS and HIV infection in Switzerland). *Therapeutische Umschau* (Swiss Journal for General Practitioners), September 1988; 9:640-646.
6. Samuel M, Minder C, Bailey N. Bulletin, Bundesamt für Gesundheitswesen (Bulletin, Federal Office of Public Health). "Projektionen der AIDS - Ausbreitung in der Schweiz" ("Projection of the spread of AIDS in Switzerland"). October 27, 1988.
7. Samuel M, Engel R. Selected aspects of AIDS among homosexual men. *Sozial-und Präventivmedizin* (Swiss Journal of Social and Preventative Medicine) 1988; 33:331-335.
8. Michaud PA, Stutz T, Samuel, M. La Prevention du SIDA Aupres des Jeunes (AIDS - prevention among young people). *Sozial-und Präventivmedizin* (Swiss Journal of Social and Preventative Medicine) 1988; 33:319-325.
9. Feigal D, Katz M, Greenspan D, Westenhause J, Winkelstein W Jr, Lang W, Samuel M, et al. The prevalence of oral lesions in HIV-infected homosexual and bisexual men: three San Francisco epidemiologic cohorts. *AIDS* 1991; 5(5):519-525.
10. Samuel M, Guydish J, Ekstrand M, et al. Changes in sexual practices over 5 years of follow-up among heterosexual men in San Francisco. *J Acquir Immune Syndr* 1991; 4(9):896-900.
11. Lang W, Osmond D, Samuel M, et al. Population based estimates of zidovudine and aerosol pentamidine use in San Francisco: 1987-1989. *J Acquir Immune Syndr* 1991; 4(7):713-716.
12. Katz MH, Greenspan D, Westenhause J, Hessol NA, Buchbinder SP, Lifson AR, et al. Progression to AIDS in HIV-infected homosexual and bisexual men with hairy leukoplakia and oral candidiasis: results from three San Francisco epidemiologic cohorts. *AIDS* 1992 6(1):95-100.
13. Samuel M, Hessol N, Shiboski S, Engel RR, Speed TP, Winkelstein W Jr. Factors associated with human immunodeficiency virus seroconversion in homosexual men in three San Francisco cohorts, 1984-1989. *J Acquir Immune Defic Syndr* 1993; 6(3):303-312.
14. Engel RE, Samuel MC, Rieder HL, Billo N, Somaini B. Completeness of acquired immunodeficiency syndrome (AIDS) reporting in Switzerland: A study based on deaths between December 1989 and July 1990. *AIDS* 1992; 6:1385-1389.
15. CDC. Outbreak of acute illness - Southwestern United States, 1993. *MMWR* 1993;42(no. 22):421-424.
CDC. Update: outbreak of hantavirus infection. *MMWR* 1993;42(no. 23):441-443.
CDC. Update: outbreak of hantavirus infection-southwestern United States, 1993. *MMWR* 1993;42(no.24):477-9.

16. Lifson AR, Hilton JF, Westenhouse JL, Canchola AJ, Samuel MC, Katz MH, et al. Time from HIV seroconversion to oral candidiasis or hairy leukoplakia among homosexual and bisexual men enrolled in three prospective cohorts. *AIDS* 1994; 8:73-79.
17. Zeitz PS, Butler JC, Cheek J, Samuel MC, Childs JE, Childs JE, et al. A case-control study of hantavirus pulmonary syndrome during an outbreak in the southwestern United States. *JID* 1995; 171:864-70.
18. Samuel MS. What does risk mean? prospective and cross-sectional studies (in a section on "The risk of HIV transmission from oral-genital intercourse"). *The AIDS Reader* 1994; 4(4):130-132.
- 18B. reprinted in *Infections in Urology* 1994; 7:179-181.
19. Diaz T, Chu SY, Conti L, Sorvillo F, Checko PJ, Hermann P, Fann SA, Frederick M, Boyd D, Mokotoff E, Rietmeijer CA, Samuel MC. Risk Behaviors of persons with heterosexually acquired HIV infection in the United States: results of a multistate surveillance project. *J Acquir Immune Defic Syndr* 1994; 7(9):958-963.
20. Diaz T, Chu SY, Byres RH, Hersh BS, Conti L, Rietmeijer CA, Mokotoff E, Fann A, Boyde D, Iglesias L, Checko PJ, Frederick M, Herman P, Herr M, Samuel MC. The types of drugs used by HIV-infected injection drug users in a multistate surveillance project: implications for intervention. *American Journal of Public Health* 1994; 84(12):1971-1975.
21. Diaz T, Chu SY, Conti L, Sorvillo F, Mokotoff E, Davidson AJ, Samuel MC. Differences in participation in experimental drug trials among persons with AIDS. *J Acquir Immune Defic Syndr* 1995; 10:562-568.
23. CDC. Incidence of foodborne illness: preliminary data from the foodborne disease active surveillance network (FoodNet) - United States, 1998. *MMWR* 1999; 48(9):189-194.
- 23B. CDC. Preliminary FoodNet data on the incidence of foodborne illnesses--selected sites, United States, 1999. *MMWR* 2000; 49(10):201-205.
- 23C. CDC. Preliminary FoodNet data on the incidence of foodborne illnesses--selected sites, United States, 2000. *MMWR* 2001; 50(13):241-245.
24. Samuel MC, Portnoy D, Tauxe R, Angulo F, Vugia D. It must have been something I ate: Complaints of foodborne illness in San Francisco, California 1998. *Journal of Food Protection* 2001; 64(8):1261-4.
25. Samuel M, Doherty PM, Bulterys M, Jenison SA. Risk factors for hepatitis B virus, hepatitis C virus, and HIV-1 seropositivity among injection drug users in New Mexico, USA. *Epidemiol Infect* 2001; 127(3):475-84.
26. Huang SS, Labus BJ, Samuel MC, Wan DT, Reingold AL. Antibiotic resistance patterns of bacterial isolates from blood in San Francisco County, 1996-1999. *Emerging Infectious Diseases* 2002; 8(2):195-201.
27. Winthrop KL, Albridge K, South D, Albrecht P, Abrams M, Samuel MC, et al. The clinical management and outcome of nail salon-acquired *Mycobacterium fortuitum* skin infections. *Clin Infect Dis* 2004; 38(1 January):38:44.
28. Samuel MC, Vugia DJ, Shallow S, et al. Epidemiology of sporadic *Campylobacter* infection in the United States and declining trend in incidence, FoodNet 1996-1999. *Clin Infect Dis* 2004; 38 (suppl 3):S165-74.
29. Ray SM, Ahuja SD, Blake PA, Farley MM, Samuel MC, Fiorentino T, et al. Population-based surveillance for *Yersinia enterocolitica* infections in FoodNet Sites, 1996-1999: higher risk of disease in infants and minority populations. *Clin Infect Dis* 2004; 38 (suppl 3):S181-9.
30. Friedman CR, Hoekstra RM, Samuel MC, et al. Risk factors for sporadic *Campylobacter* infection in the United States: a case-control study in FoodNet sites. *Clin Infect Dis* 2004; 38 (suppl 3):S285-96.
31. Jones TF, Imhoff B, Samuel MC, et al. Limitations to successful investigation and reporting of foodborne outbreaks: an analysis of foodborne disease outbreaks in FoodNet catchment areas, 1998-1999. *Clin Infect Dis* 2004; 38 (suppl 3):S297-302.
32. Vugia DJ, Samuel MC, Farley MM, et al. Invasive *Salmonella* infections in the United States, FoodNet, 1996-1999: incidence, serotype distribution, and outcome. *Clin Infect Dis* 2004; 38 (suppl 3):S149-56.

33. Guerry SL, Bauer HM, Packel L, Samuel M, Chow J, Rhew M, Bolan G, *Chlamydia* screening and management practices of primary care physicians and nurse practitioners in California. *J Gen Intern Med* 2005;20:1102-1107.
34. Bauer HM, Mark KE, Samuel M. Prevalence of and associated risk factors for Fluoroquinolone-resistant *Neisseria gonorrhoeae* in California, 2000–2003. *Clin Infect Dis* 2005;41:793-803.
35. Varma JK, Samuel MC, Marcus R, Hoekstra RM, Medus C, Segler S, et al. *Listeria monocytogenes* infection from foods prepared in a commercial establishment: a case-control study of potential sources for sporadic illness in the United States. *Clin Infect Dis* 2007; Feb 15;44(4):521-82006.
36. Packel L, Guerry S, Bauer HM, Rhew M, Chow J, Samuel M, Bolan G. Patient-delivered partner therapy for chlamydial infection: attitudes and practices of California physicians and nurse practitioners. *Sex Transm Dis*. 2006; 33 (7): 458-463.
37. Ahrens K, Bradbury KJ, Bauer HM, Samuel MC, Gould G, Donatoni G, et al. Trends in the Use of Sexually Transmitted Disease Diagnostic Technologies in California, 1996-2003. *Sex Transm Dis*. 2006. 2007; Jul;34(7):513-8.
38. Aragón TJ, Vugia DJ, Shallow S, Samuel MC, et al. Case-Control Study of Shigellosis in San Francisco: The Role of Sexual Transmission and HIV Infection. *Clin Infect Dis* 2007;44:327-34.
39. Centers for Disease Control and Prevention. Trends in gonorrhea rates — eight western states, 2000–2005. *MMWR* 2007; 56:222-5.
40. Samuel MC, Vugia DJ, Koehler KM, et al. Consumption of risky foods among adults at high risk for severe foodborne diseases: room for improved targeted prevention messages. *Journal of Food Safety* 2007; (27):219-31.
41. Creegan L, Bauer HM, Samuel MC, Klausner J, Liska S, Bolan G. An evaluation of the relative sensitivities of the Venereal Disease Research Laboratory (VDRL) test and the *Treponema pallidum* Particle Agglutination (TP-PA) test among patients diagnosed with primary syphilis. *Sex Transm Dis*. 2007. In press.
42. Morris SR, Bauer HM, Samuel MC, Johnson D, Bolan G. Neonatal herpes morbidity and mortality in California, 1995-2003. *Sex Transm Dis*. 2007. In press.

Letters:

1. Winkelstein W Jr, Samuel M, Padian N, Wiley J. Selected sexual practices of San Francisco heterosexual men and risk of infection by the human immunodeficiency virus. *JAMA* 1987; 257:1471.
2. Samuel M, Winkelstein W Jr. Prevalence of human immunodeficiency virus infection in ethnic minority men. *JAMA* 1987; 257:1901-1902.
3. Samuel M, Winkelstein W Jr. Does syphilis facilitate sexual acquisition of HIV? *JAMA* 1987; 258:473.
4. Kent C, Samuel M, Winkelstein W. The role of anal/genital warts in HIV infection. *JAMA* 1987; 258:3385.
5. Blower S, Samuel M, Wiley J. Sex, power laws and HIV transmission. *J Acquir Immune Syndr* 1992; 5(6):633-634.
6. Page-Bodkin K, Tappero J, Samuel M, Winkelstein W Jr. Kaposi's sarcoma and fecal-oral exposure. *Lancet* 1992; 339:1490.
7. van Griensvan GJ, Samuel MC, Winkelstein W Jr. The success and failure of condom use by homosexual men in San Francisco. *J Acquir Immune Defic Syndr* 1993; 6(4):430-1.
8. Samuel MC, Bulterys M, Jenison S, Doherty P. Tattoos, incarceration and hepatitis B and C among street-recruited injection drug users in New Mexico, USA: update. *Epidemiol Infect* 2005; 133:1146.

9. Chow RM, Bauer HM, Samuel MC, et al. Challenges in implementing chlamydia control strategies: the glass half-full. *Rapid Response to: Low n. Screening programmes for chlamydial infection: when will we ever learn?* *BMJ* 2007; 334: 725-728

Invited Publications:

1. Wiley J, Samuel M. Prevalence of HIV Infection in the United States. *AIDS* 1989; 3:supplement 1:S71-S78.
2. Samuel MC, Osmond D. Annotation: Uncertainties in estimating HIV Prevalence and Incidence in the United States. *American Journal of Public Health* 1996; 86(5):627-8.
3. (invited book review) Samuel MC. *Field Epidemiology, Second Edition*, edited by Michael B. Gregg. *American Journal of Epidemiology* 2002; 156(8):783-4.

Book Chapters:

1. Le SIDA En Suisse: L'épidémie: Ses Conséquences et Les Mesures Prises, (AIDS in Switzerland: The Epidemic, Consequences and Policy); Report of the Federal Commission on AIDS and the Federal Office of Public Health. (one of over 100 authors--was responsible for the majority of the graphical presentation of AIDS and HIV epidemiology in the report and some writing and review.)
2. Samuel MC, Mohr MS, Speed TP, Winkelstein W Jr. Infectivity of human immunodeficiency virus by anal and oral intercourse among male homosexuals: estimates from a prospective study in San Francisco. in Modeling the AIDS Epidemic: Planning, Policy, and Prediction; Kaplan EH and Brandeau ML, editors. Raven Press, New York, 1994.
3. Groseclose SL, Samuel MC, Weinstock H. Surveillance for Sexually Transmitted Diseases. in Infectious Disease Surveillance; Nkuchia M'ikanatha, Ruth Lynfield, Chris Van Beneden & Henriette de Valk, editors. Blackwell, London, United Kingdom, 2007.