

CURRICULUM VITAE

ARNOLD S. MONTO, M.D.

Thomas Francis Jr. Collegiate Professor of Public Health
Professor of Epidemiology

CONTACT INFORMATION

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EDUCATION

Cornell University Medical College, New York, NY M.D. 1958
Cornell University, Ithaca, NY B.A. 1954

POSITIONS

Intern and Assistant Resident in Medicine, Vanderbilt University Hospital, 1958-60
USPHS Post Doctoral Fellow in Infectious Diseases, Stanford Medical Center, 1960-1962
Staff Member, Virus Diseases Section, Middle America Research Unit, National Institute of Allergy and Infectious Diseases, 1962-1965
Research Associate, Assistant Professor, Associate Professor, and Professor, Department of Epidemiology, School of Public Health, The University of Michigan, 1965-present
Thomas Francis Jr. Professor of Public Health, 2010-present

PROFESSIONAL EXPERIENCE:

Visiting Scientist, Clinical Research Centre, Northwick Park Hospital, Harrow, England, 1976
Scholar-in-Residence, National Academy of Sciences (Board on Science and Technology for International Development) and Institute of Medicine, 1983-1984
Advisor, Division of Communicable Diseases, World Health Organization, Geneva, Switzerland, 1986-1987

Chairman, Department of Population Planning and International Health and **Director**, Center for Population Planning and International Health, University of Michigan, 1993-1996

Director, University of Michigan Bioterrorism Preparedness Initiative, 2002-2004

Director, The Israel Public Health Initiative, University of Michigan, 2014 - present

HONORS

Career Development Award, NIH

Pulmonary Diseases Advisory Committee, NHLBI

National Advisory Allergy and Infectious Diseases Council, 1989-1993

President, American Epidemiological Society, 2004-05

Alexander Fleming Lifetime Achievement Award, Infectious Diseases Society of America, 2009

Thomas Francis Jr. Lectureship, University of Michigan 2010

Charles Merieux Award, National Foundation for Infectious Diseases, 2012

PROFESSIONAL ORGANIZATIONS

American Epidemiological Society

American Association for the Advancement of Science

American Public Health Association

Infectious Diseases Society of America (Fellow)

International Epidemiological Association

Society for Epidemiologic Research

LICENSURE

Medical Doctor, Michigan permanent I.D. #126731

Diplomat, American Board of Medical Microbiology

Diplomat, American College of Epidemiology

CURRENT GRANT SUPPORT

Core_plus_Option_A_B_Proposal for Influenza Vaccine Effectiveness Research

Role: Principal Investigator

Date: 7/1/2011 – 6/30/2016

Funder: Centers for Disease Control and Prevention (NCIRD)

This cooperative agreement is a five site network intended to determine the effectiveness of influenza vaccine in preventing medically attended illnesses on an annual basis

Comparative Study of Influenza Vaccines in Adults

Role: Principal Investigator

Date: 9/1/07-7/31/16

Funder: Sanofi Pasteur, Inc.

A study evaluating the absolute and relative efficacies of live attenuated and inactivated influenza vaccines in young adults. This is a large clinical trial involving several sites in Michigan. Secondary aims are to determine laboratory correlates and duration of protection; the grant has been extended for this purpose.

US Platform to Measure Influenza Vaccine Effectiveness Against Laboratory-confirmed Influenza-associated Hospitalizations

Role: Principal Investigator

Date: 8/01/2015 - 7/31/2020

Funder: U.S. Centers for Disease Control and Prevention

This cooperative agreement is intended to determine on an annual basis the effectiveness of influenza vaccine by collecting and comparing data on laboratory confirmed outpatient influenza cases and controls. Household study funded as an optional component.

Household Studies of Influenza and Other Respiratory Viruses

Role: Co-Investigator

Date: 8/20/2012 - 7/31/2016

Funder: National Institutes of Health

This grant allows expansion of the household study to include identification of other respiratory viruses and analysis of immunologic responses to influenza infection and vaccination.

SELECTED RECENT SERVICE

International and National

Acute Respiratory Infections Subcommittee, US/Japan – Cooperative Medical Science Panel, 2010

Member, President's Council of Advisors on Science and Technology 2009 – H1N1 Working Group, 2009

WHO Emergency Committee, 2009-2010

Board Member, European Scientific Working Group on Influenza, 2009-present

Member, Scientific and Technical Advisory Group, World Health Organization, Global Influenza

Programme, 2009- present

Advisory Board, Emory University Center for Excellence in Influenza Research and Surveillance, 2008-present

Pandemic Influenza Task Force, Infectious Disease Society of America, 2007- present

Scientific Committee, Merieux Foundation, 2007-present

Co-chair Neuraminidase Inhibitor Susceptibility Network, 2006-2013

Co-chair, Infectious Disease Society of America Meetings Seasonal and Pandemic Influenza, 2006-2010

World Health Organization Pandemic Influenza Task Force, 2006-2007

Institute of Medicine Committee on Modeling Community Containment for Pandemic Influenza, 2006

Briefing on Pandemic Influenza, Health Committees of House of Commons and Senate, Ottawa, 2006

Briefing on Pandemic Influenza, State Department, Washington, DC, 2006

Moderator, NIH Meeting on Antivirals for Pandemics, 2006

Pandemic Advisory Group, European Commission, Brussels, 2005

Consultant, DARPA, Department of Defense, Predicting Health and Disease Workshop, 2005

Advisor, Defense Threat Reduction Agency, Department of Defense, 2005-present

PUBLICATIONS

1. Monto AS. The liver in ulcerative disease of the intestinal tract: Functional and anatomic changes. *Ann of Int Med.* 1959; 50:1385-94.
2. Vosti KL, Monto AS and Rantz LA. The importance of sample size in studies based upon the serologic classification of *Escherichia coli*. *Proc Soc Exp Biol Med.* 1962; 111:201-4.
3. Monto AS and Rantz LA. The development and character of bacteriuria in pregnancy. *Ann Int Med.* 1963; 59:186-93.
4. Vosti KL, Monto AS, Older JJ and Rantz LA. The serologic specificity of crude and purified antigen extracts of *Escherichia coli* in hemagglutination reactions with rabbit and human antisera. *J Immun.* 1964; 93:199-204.
5. Vosti KL, Goldberg LM, Monto AS and Rantz LA. Host-parasite interaction in patients with infections due to *Escherichia coli*. I. The serogrouping of *E. coli* from intestinal and extraintestinal sources. *J Clin Invest.* 1964; 43:2377-85.
6. Monto AS and Rantz LA. Classification of so-called paracolonic bacilli isolated from urinary tract infection. *J Lab Clin Med.* 1965; 65:64-70.
7. Vosti KL, Monto AS, Rantz LA. Host-parasite interaction in patients with infections due to *Escherichia coli* II Serologic response of the host. *J Lab Clin Med.* 1965 Oct;66(4):613-26. PubMed PMID: 4954172.
8. Monto AS, Olazabal F Jr. Asian influenza in the Panama Canal zone: isolation of a virus variant and protective effect of a vaccine containing A2/Japan/305/57. *Am J Epidemiol.* 1966 Jan;83(1):101-12. PubMed PMID: 5910213.
9. Monto AS, Johnson KM. Serologic relationships of the B632 and ECHO-28 rhinovirus strains. *Proc Soc Exp Biol Med.* 1966 Feb;121(2):615-9. PubMed PMID: 4286797.

10. Monto AS, Johnson KM. A community study of respiratory infections in the tropics I Description of the community and observations on the activity of certain respiratory agents. *Am J Epidemiol.* 1967 Jul;86(1):78-92. PubMed PMID: 4951566.
11. Monto AS, Johnson KM. A community study of respiratory infections in the tropics II The spread of six rhinovirus isolates within the community. *Am J Epidemiol.* 1968 Jul;88(1):55-68. PubMed PMID: 4298480.
12. Monto AS. A community study of respiratory infections in the tropics 3 Introduction and transmission of infections within families. *Am J Epidemiol.* 1968 Jul;88(1):69-79. PubMed PMID: 4298481.
13. Monto AS, Johnson KM. Respiratory infections in the American tropics. *Am J Trop Med Hyg.* 1968 Nov;17(6):867-74. PubMed PMID: 4302276.
14. Monto AS. Prevalence of antistreptolysin O in young Panamanians. *Public Health Rep.* 1969 Jan;84(1):77-80. PubMed PMID: 4975340; PubMed Central PMCID: PMC2031429.
15. Monto AS, Davenport FM, Napier JA, Francis T Jr. Effect of vaccination of a school-age population upon the course of an A2-Hong Kong influenza epidemic. *Bull World Health Organ.* 1969;41(3):537-42. PubMed PMID: 5309469; PubMed Central PMCID: PMC2427727.
16. Francis T, Monto AS. Letters to the editor. *Am J Public Health Nations Health.* 1969 Apr;59(4):589. PubMed PMID: 18018250; PubMed Central PMCID: PMC1226466.
17. Monto AS, Cavallaro JJ, Brown GC. Attenuated rubella vaccination in families: observations on the lack of fluorescent antibody response and on the use of blood collected on filter paper discs in the hemagglutination-inhibition test. *J Lab Clin Med.* 1969 Jul;74(1):98-102. PubMed PMID: 4892624.
18. Monto AS, Davenport FM, Napier JA, Francis T Jr. Modification of an outbreak of influenza in Tecumseh, Michigan by vaccination of schoolchildren. *J Infect Dis.* 1970 Jul-Aug;122(1):16-25. PubMed PMID: 5433709.
19. Monto AS, Cavallaro JJ, Keller JB. Seasonal patterns of acute infection in Tecumseh, Mich. *Arch Environ Health.* 1970 Sep;21(3):408-17. PubMed PMID: 4323374.
20. Monto AS, Cavallaro JJ, Whale EH. Frequency of arthralgia in women receiving one of three rubella vaccines. *Arch Intern Med.* 1970 Oct;126(4):635-9. PubMed PMID: 4918712.
21. Cavallaro JJ, Monto AS. Community-wide outbreak of infection with a 229E-like coronavirus in Tecumseh, Michigan. *J Infect Dis.* 1970 Oct;122(4):272-9. PubMed PMID: 5504709.
22. Monto AS, Napier JA, Metzner HL. The Tecumseh study of respiratory illness I Plan of study and observations on syndromes of acute respiratory disease. *Am J Epidemiol.* 1971 Sep;94(3):269-79. PubMed PMID: 5093655.
23. Monto AS, Cavallaro JJ. The Tecumseh study of respiratory illness II Patterns of occurrence of infection with respiratory pathogens, 1965-1969. *Am J Epidemiol.* 1971 Sep;94(3):280-9. PubMed PMID: 4328569.
24. Monto AS, Lim SK. The Tecumseh study of respiratory illness 3 Incidence and periodicity of respiratory syncytial virus and *Mycoplasma pneumoniae* infections. *Am J Epidemiol.* 1971 Sep;94(3):290-301. PubMed PMID: 4328570.
25. Davenport FM, Monto AS. Practical considerations in the diagnosis of myxovirus infections. *Am J Clin Pathol.* 1972 Jun;57(6):777-82. PubMed PMID: 4337371.
26. Cavallaro JJ, Monto AS. HL cells, a sensitive line for the isolation and propagation of respiratory syncytial virus. *Proc Soc Exp Biol Med.* 1972 Jun;140(2):507-10. PubMed PMID: 4338798.

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30. Monto AS. The Tecumseh study of respiratory illness V Patterns of infection with the parainfluenzaviruses. *Am J Epidemiol.* 1973 May;97(5):338-48. PubMed PMID: 4349692.
31. Monto AS, Ullman BM. Acute respiratory illness in an American community The Tecumseh study. *JAMA.* 1974 Jan 14;227(2):164-9. PubMed PMID: 4357298.
32. Monto AS, Bryan ER. Microneutralization test for detection of rhinovirus antibodies. *Proc Soc Exp Biol Med.* 1974 Feb;145(2):690-4. PubMed PMID: 4360649.
33. Monto AS, Lim SK. The Tecumseh study of respiratory illness VI Frequency of and relationship between outbreaks of coronavirus infection. *J Infect Dis.* 1974 Mar;129(3):271-6. PubMed PMID: 4816305.
34. Monto AS. Medical reviews Coronaviruses. *Yale J Biol Med.* 1974 Dec;47(4):234-51. PubMed PMID: 4617423; PubMed Central PMCID: PMC2595130.
35. Monto AS, Bryan ER, Rhodes LM. The Tecumseh study of respiratory illness VII Further observations on the occurrence of respiratory syncytial virus and *Mycoplasma pneumoniae* infections. *Am J Epidemiol.* 1974 Dec;100(6):458-68. PubMed PMID: 4374887.
36. Monto AS, Higgins MW, Ross HW. The Tecumseh study of respiratory illness VIII Acute infection in chronic respiratory disease and comparison groups. *Am Rev Respir Dis.* 1975 Jan;111(1):27-36. PubMed PMID: 163065.
37. Oberhofer TR, Brown GC, Monto AS. Seroimmunity to poliomyelitis in an American community. *Am J Epidemiol.* 1975 Apr;101(4):333-9. PubMed PMID: 164770.
38. Monto AS, Kioumehri F. The Tecumseh Study of Respiratory Illness IX Occurrence of influenza in the community, 1966--1971. *Am J Epidemiol.* 1975 Dec;102(6):553-63. PubMed PMID: 1202957.
39. Monto AS. *Viral Infections of Humans: Epidemiology and Control.* Evans AS, editor. New York: Plenum Medical Book Co.; 1976. Coronaviruses; p.127-41. 584p.
40. Monto AS, Rhodes LM. Detection of coronavirus infection of man by immunofluorescence. *Proc Soc Exp Biol Med.* 1977 Jun;155(2):143-8. PubMed PMID: 194251.
41. Monto AS, Maassab HF. Use of influenza vaccine in non-high risk populations. *Dev Biol Stand.* 1977 Jun 1-3;39:329-35. PubMed PMID: 604116.
42. Monto AS, Ross H. Acute respiratory illness in the community: effect of family composition, smoking, and chronic symptoms. *Br J Prev Soc Med.* 1977 Jun;31(2):101-8. PubMed PMID: 884394; PubMed Central PMCID: PMC479004.
43. Monto AS, Dickson CB, Landis JR. Utilization and acceptability of influenza A/New Jersey/76 virus vaccine in Oakland County, Michigan. *J Infect Dis.* 1977 Dec;136 Suppl:S693-8. PubMed PMID: 606793.
44. Monto AS, Ross HW. The Tecumseh study of respiratory illness X Relation of acute infections to smoking, lung function and chronic symptoms. *Am J Epidemiol.* 1978 Jan;107(1):57-64. PubMed PMID: 623090.

45. Maassab HF, Spring SB, Kendal AP, Monto AS. Negative Strand Viruses and the Host Cell. Mahy BW, Barry RD, editors. Massachusetts: Academic Press; 1978. Biologic characteristics of influenza virus recombinants derived at suboptimal temperature; p.721-32.
46. Austin MA, Monto AS, Maassab HF. Growth characteristics of influenza virus type C in avian hosts Brief report. Arch Virol. 1978;58(4):349-53. PubMed PMID: 736797.
47. Monto AS, Bryan ER. Susceptibility to rhinovirus infection in chronic bronchitis. Am Rev Respir Dis. 1978 Dec;118(6):1101-3. PubMed PMID: 217286.
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50. Monto AS, Maassab HF. Effect of cyclic nucleotide on coronavirus replication. Proc Soc Exp Biol Med. 1979 Jun;161(2):183-5. PubMed PMID: 221932.
51. Fannin KF, Cochran KW, Lamphiear DE, Monto AS. "Acute Illness Differences with Regard to Distance from the Tecumseh, Michigan, Wastewater Treatment Plant" in Wastewater Aerosols and Diseases, Proceedings of a Symposium September 1979. Pahren HA, Jakubowski W, editors. Cincinnati, Ohio: U.S. Environmental Protection Agency, EPA #600980028; 1980. p.117-135.
52. Monto AS. Maxcy-Rosenau Public Health and Preventive Medicine. 11th ed. Last J, editor. New York: Appleton-Century-Crofts; 1980. Acute respiratory disease; Viral infections of the gastrointestinal tract; p.121-31; 131-5.
53. Monto AS, Koopman JS. The Tecumseh Study XI Occurrence of acute enteric illness in the community. Am J Epidemiol. 1980 Sep;112(3):323-33. PubMed PMID: 7424881.
54. Luscombe FA, Monto AS, Baublis JV. Mortality due to Reye's syndrome in Michigan: distribution and longitudinal trends. J Infect Dis. 1980 Sep;142(3):363-71. PubMed PMID: 7441007.
55. Monto AS, Maassab HF, Bryan ER. Relative efficacy of embryonated eggs and cell culture for isolation of contemporary influenza viruses. J Clin Microbiol. 1981 Jan;13(1):233-5. PubMed PMID: 7462417; PubMed Central PMCID: PMC273760.
56. Monto AS, Maassab HF. Ether treatment of type B influenza virus antigen for the hemagglutination inhibition test. J Clin Microbiol. 1981 Jan;13(1):54-7. PubMed PMID: 7462419; PubMed Central PMCID: PMC273720.
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58. Maassab HF, Smitka CW, Donabedian AM, Monto AS, Cox NJ, Kendal AP. The Replication of Negative Strand Viruses. Bishop DH, Compans RS, editors. New York: Elsevier - North Holland, Inc; 1981. Characteristics of influenza virus "cold" recombinants derived at the non-permissive temperature (38°); p.395-404.
59. Monto AS, Maassab HF. Serologic responses to nonprevalent influenza A viruses during intercytic periods. Am J Epidemiol. 1981 Mar;113(3):236-44. PubMed PMID: 7193408.

60. Monto AS, Ceglarek JP, Hayner NS. Liver function abnormalities in the course of a type A (H1N1) influenza outbreak: relation to Reye's syndrome. *Am J Epidemiol.* 1981 Nov;114(5):750-9. PubMed PMID: 7304602.
61. Troisi CL, Monto AS. Comparison of enzyme-linked immunosorbent assay and hemagglutination inhibition in a seroepidemiological study of influenza type C infection. *J Clin Microbiol.* 1981 Nov;14(5):516-21. PubMed PMID: 7309849; PubMed Central PMCID: PMC273979.
62. Miller F, Hussein M, Mancy KH, Hilbert MS, Monto AS, Barakat RM. An epidemiological study of *Schistosoma haematobium* and *S mansoni* infection in thirty-five rural Egyptian villages. *Trop Geogr Med.* 1981 Dec;33(4):355-65. PubMed PMID: 7342382.
63. Monto AS, Miller FD, Maassab HF. Evaluation of an attenuated, cold-recombinant influenza B virus vaccine. *J Infect Dis.* 1982 Jan;145(1):57-64. PubMed PMID: 7054318.
64. Monto AS. *Viral Infections of Humans: epidemiology and control*. 2nd ed. Evans AS, editor. New York: Plenum Medical Book Publishing Company; 1982. Coronaviruses; p.151-65.
65. Monto AS. Book Review: *Pure Politics and Impure Science: The Swine Flu Affair*. *JAMA.* 1982; 247:3268-69.
66. Koopman JS, Eckert EA, Greenberg HB, Strohm BC, Isaacson RE, Monto AS. Norwalk virus enteric illness acquired by swimming exposure. *Am J Epidemiol.* 1982 Feb;115(2):173-7. PubMed PMID: 6277185.
67. King CL, Miller FD, Hussein M, Barkat R, Monto AS. Prevalence and intensity of *Schistosoma haematobium* infection in six villages of upper Egypt. *Am J Trop Med Hyg.* 1982 Mar;31(2):320-7. PubMed PMID: 7072897.
68. Longini IM Jr, Koopman JS, Monto AS, Fox JP. Estimating household and community transmission parameters for influenza. *Am J Epidemiol.* 1982 May;115(5):736-51. PubMed PMID: 7081204.
69. Maassab HF, Kendal AP, Abrams GD, Monto AS. Evaluation of a cold-recombinant influenza virus vaccine in ferrets. *J Infect Dis.* 1982 Dec;146(6):780-90. PubMed PMID: 7142749.
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72. Wright PF, Cherry JD, Foy HM, Glezen WP, Hall CB, McIntosh K, Monto AS, Parrott RH, Portnoy B, Tabor LH. Antigenicity and reactogenicity of influenza A/USSR/77 virus vaccine in children--a multicentered evaluation of dosage and safety. *Rev Infect Dis.* 1983 Jul-Aug;5(4):758-64. PubMed PMID: 6353530.
73. Monto AS, Koopman JS, Longini IM, Isaacson RE. The Tecumseh study XII Enteric agents in the community, 1976-1981. *J Infect Dis.* 1983 Aug;148(2):284-91. PubMed PMID: 6310002.
74. Monto AS. Prevention and drug treatment of influenza. *Am Fam Physician.* 1983 Dec;28(6):165-9. PubMed PMID: 6650333.
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77. Monto AS. Rimantadine prophylaxis of influenza A. *Microbiology.* 1984; :424-6.

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85. Monto AS. Laboratory Diagnosis of Viral Infections. Lennette EH, editor. New York: Marcel Dekker, Inc; 1985. Parainfluenza viruses; p.385-99.
86. Monto AS. Acute Respiratory Infections in Childhood. Douglas RM, Kerby-Eaton E, editors. Australia: University of Adelaide Press; 1985. Prospects for control of rhinovirus and coronavirus infections; p.62-6.
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101. Monto AS. *New Vaccines: Introduction, Part 2. Reviews of Infectious Diseases* . 1989; 11 :S586-S587.
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103. Monto AS. Acute respiratory infection in children of developing countries: challenge of the 1990s. *Rev Infect Dis*. 1989 May-Jun;11(3):498-505. PubMed PMID: 2665005.
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106. Monto AS. *Conn's Current Therapy*. Rakel RE, editor. Philadelphia: WB Saunders; 1990. Influenza 1184p.
107. Sullivan KM, Monto AS, Foster DA. Antibody response to inactivated influenza vaccines of various antigenic concentrations. *J Infect Dis*. 1990 Feb;161(2):333-5. PubMed PMID: 2299213.
108. Monto AS, Ohmit S. Respiratory syncytial virus in a community population: circulation of subgroups A and B since 1965. *J Infect Dis*. 1990 Apr;161(4):781-3. PubMed PMID: 2319169.
109. Monto AS, Higashi GI, Marrs CF. *Textbook of Public Health*. New York: Oxford University Press; 1991. Determinants of disease: The infectious process
110. Monto AS. Book Review: *History, Epidemiology: Expectations of life: Study in the demography, statistics, and history of world mortality*, by H.O. Lancaster. *JAMA*. 1991 January 09; 265(2):283.
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