

12 Sept, 2015

Name: Daniel R. Lucey, M.D., M.P.H.

Address: Department of Microbiology and Immunology
Georgetown University Medical Center (GUMC)
Medical Dental Building Room 321 SW
3900 Reservoir Road NW, Washington, DC 20057-1411
e-mail: DRL23@georgetown.edu Phone/text: 202-299-4398

Education: Dartmouth College. Hanover, New Hampshire
Dates 1973-1977. Degree: B.A. Magna Cum Laude
Dartmouth Medical School. Hanover, NH
Dates 1978-1982. Degree: M.D. with Honors (AOA Honor Society)

Harvard School of Public Health. Boston, MA
Degree: Masters in Public Health (M.P.H).
Dates 1987-1988. Degree: MPH. Department Tropical Public Health

Residency: Internal Medicine, University of California San Francisco
UCSF Moffitt-Long Hospitals, San Francisco General Hospital & VA.
Department: Internal Medicine. San Francisco, CA 1982-1985

Fellowship: Infectious Diseases, Harvard University
Brigham & Womens' Hospital, Beth Israel Hospital, and
Dana Farber Cancer Institute, Boston, MA. 1985-1988

Licensure: Washington, DC. Medical License # MD 31232
Initial date of DC license: October 1998. Valid through 31 Dec 2016.
1984 Diplomat, American Board of Internal Medicine #102172
1988 Diplomat, American Board of Infectious Diseases #10217

Professional Experience

2004-present: Adjunct Professor, Department of Microbiology and Immunology, GUMC
International Consultant, Global Infectious Disease Outbreaks

2014-present: Senior Scholar and Adjunct Professor, Georgetown Law School, O'Neill
Institute for Global Health Law. Appointed by Lawrence Gostin, JD

2014-present: Adjunct Professor, Georgetown University School of Foreign Service:
Science, Technology, and International Affairs (STIA), and Asia Studies.

2014-present: Originator and a Curator: *Planned 2017 Exhibit on "Global Outbreaks"*
Smithsonian Institute National Museum of Natural History, Wash., DC

2004: Washington, DC Department of Health (DOH)
Feb 10-April 30. Interim Chief Medical Officer (CMO)
May 1- June 30: Special Advisor to the Director on Biopreparedness,

2002-10: Consultant, Center for Emerging Diseases & Biodefense (www.BePast.org)
Washington (DC) Hospital Center EROne Institute, Medstar Health

1998-02: Chief, Infectious Disease Service, Washington Hospital Center

Director, ID Fellowship Training Program
Washington Hospital Center-Medstar Health, Washington, DC.
Included teaching visiting Infectious Diseases Fellows from the National Institutes of Health (NIH), National Naval Medical Center, Bethesda, Maryland; and Walter Reed Army Medical Center, DC.

- 1996-98: FDA Center for Biologics, Evaluation & Research (CBER)
U.S. Public Health Service (USPHS) Medical Officer
Infectious Disease Vaccine Regulatory Division: DVRPA/OVRR
- 1992-98: Attending Physician Clinical Service (1-2 months/year)
Infectious Disease and Internal Medicine.
National Naval Medical Center (NNMC), Bethesda, MD.
- 1995-1998: NIH Clinical Center Building 10, Infectious Disease Attending.
On-Service months: Sept 1995, Sept 1996, & Sept 1997.
- 1993-96: Experimental Immunology Branch, NCI, National Institutes of Health
HIV/AIDS Cytokine Lab (1993-96) Chief: Gene Shearer, Ph.D.
HTLV-1 Leukemia Ward (1994-95) Chief: Thomas Waldmann, M.D.
Senior Clinical Investigator, (1994-95) U.S. Public Health Service.
- 1990-92: Viral Immunologist, WRAIR
Rockville, MD. Research mentor: Suzanne Gartner, Ph.D.
- 1989-90: Director, HIV/AIDS Computerized Patient Database
Wilford Hall Medical Center, San Antonio, Texas
- 1988-89: Director, HIV/AIDS Clinical Unit
Attending Physician, Infectious Diseases & Internal Medicine
Wilford Hall Medical Center, San Antonio, Texas

Faculty Appointments

- 2004-2015 Adjunct Professor of Microbiology and Immunology
2014-2015 Adjunct Professor, School of Foreign Service
2014-2015 Adjunct Professor, Law Center (O'Neill Institute)
Georgetown University Medical Center, Washington, DC
- 1999- 2003 Professor of Medicine
Uniformed Services University of the Health Sciences (USUHS)
Bethesda, Maryland
- 1993-98: Associate Professor of Medicine
Uniformed Services University of the Health Sciences
- 1988-93: Assistant Professor Medicine
Uniformed Services University of the Health Sciences

Honors and Awards

- 1977 Early Acceptance (for 1978), Dartmouth Medical School
1982 AOA Medical Honor Society, Dartmouth Medical School
1988 Young Investigator Award (Eosinophil Biology Research)
American Society of Tropical Medicine & Hygiene (ASTMH)

- 1992 1st Louis Weinstein Award for the “Best Clinical Article” for 1992. Lucey et al. “Relapsing illness due to *Rochalimae henselae* in normal hosts. Implications for therapy and new epidemiologic associations”. (Clinical Infectious Diseases 1992;14:683-8).
- 1993 Fellow, American College of Physicians (FACP)
- 1995 Henry Christian Award for Excellence in Research
“Comparison of IL-15 & IL-2 on HIV Replication”
American Federation for Clinical Research (AFCR), San Diego
- 1996 Certificate of Knowledge in Tropical Medicine and Traveler’s Health. Examination at the ASTMH meeting. Baltimore, MD
- 1997 Achievement Medal, U.S. Public Health Service (FDA: Vaccines)
- 1998 Commendation Medal, U.S. Public Health Service (FDA: Vaccines)
- 1998-01 Greater Washington Area Infectious Disease (GWIDS) Society
Secretary-Treasurer (1998-99); Vice-President (1999-2000); President (2000-2001).
- 2001 Member, Academy of Medicine of Washington, DC.
- 2001 Walter Reed Medal for Outstanding Performance:
Anthrax in DC. Presented by Major General Harold Timboe
- 2001 Department of the Army Commander’s Humanitarian Award for Civilian Public Service (For Burn-unit patient care related to 9/11).
- 2002 Invited member. The Mayor’s District of Columbia Bioterrorism Preparedness & Response Committees (2) (2002-2004).
- 2002: Leadership Award: Washington Hospital Center Bioterrorism Preparedness and Response 2001-2002.
- 2003: Visiting Scholar. Infectious Disease Division. 3rd Affiliated Hospital, Sun Yat-Sen University, Guangzhou, China. (Sept 6-7).
- 2003: “Partnership in Health” Award for: Smallpox Vaccine Symposium, Hong Kong Department of Health, Wan Chai, Hong Kong (Nov 1).
- 2003: Distinguished Service Award, Bioterrorism Preparedness, District of Columbia Hospital Association annual meeting, Washington, DC.
- 2003: Meritorious Service Award, Medical Society of DC. (November).
- 2004: Invited Speaker/participant. Inauguration of the Centre for Emerging Infectious Diseases. The Chinese University of Hong Kong. Shatin, Hong Kong. January 15-17.
- 2004: Keynote Speaker & Award. “Bioterrorism Preparedness”. Annual Meeting of the Hong Kong Infectious Disease Society. (March 6).
- 2004: Keynote Speaker & Award. “Preparing and Responding to Public Health Crises”. Conjoint Scientific Meeting. Annual Conference of the Hong Kong Societies of Community Medicine and Family Medicine. Aberdeen, Hong Kong (April 19).
- 2004: Government of the District of Columbia: Mayor Anthony Williams. Certificate of Appreciation for service to the Residents of DC and the DC Department of Health (DOH) working for the DOH 10 Feb-30 June.
- 2005: US Army Surgeon General’s Office (Virginia) Army Staff Medallion for Briefing on H5N1 Avian Influenza and the Threat of Pandemic Human Influenza (21 November)
- 2006: Project Hope-Egypt and the Egyptian Ministry of Health & Population (MOHP), National Training Institute: 5 lectures on avian and pandemic influenza (March 27-28 and June 13-15), Cairo, Egypt.
- 2008: Invited to serve as a member of the World Health Organization International Health Regulations (2005) (IHR), Roster of Experts for

- Security, bioterrorism. (Letter of 28 April from Dr. David L. Heymann, WHO, Geneva. Renewed in 2012 through 2015) by Dr. Keiji Fukuda.
- 2008: Indonesia Avian influenza program review for US Agency for International Development (USAID). June 14-30.
- 2009: Invited lecturer on Pandemic Influenza A (H1N1) in Cairo, Egypt at Ain Shams University and at Giza Chest Hospital.
- 2011: Institute of Medicine (IOM) Committee on Prepositioning of Antibiotics for Anthrax. Jan-Dec. NAS. Keck Bldg, Wash., D.C
- 2011: “Preparedness and Response for Emerging Infectious Diseases”. Grand Rounds. Riyadh Armed Forces Hospital. Riyadh, Kingdom of Saudi Arabia. July 18. Dr. Ali El-Barak, Chief of ID Service.
- 2012: “Nipah Encephalitis-Pneumonia: Evolving Epidemiology 1998-2012”. London School of Hygiene and Tropical Medicine (LSHTM). Invited by Dr. David L. Heymann. May 10.
- 2012: Team Leader USAID/GHTech H5N1 Avian Flu. Egypt Oct 29-Dec 6.
- 2013: Invited speaker: MERS Novel Coronavirus. Doha, Qatar. Supreme Council of Health, & Hamad General Hospital June 3. Dr. Mohammad Al-Hajri and Sept 11. Dr. Abdullatief.
- 2013: “MERS novel coronavirus pneumonia”. Jordan University Hospital, Amman, Jordan. Dr. Najwa Khuri-Bulos. May 30. Jordan Ministry of Health. Amman. July 7. Dr. Moh’d Al-Abdallat.
- 2013: Novel Coronavirus Pneumonia. United Arab Emirates Civil Defense conference. Dubai. May 28.
- 2013: Visiting Professor. Grand Rounds “MERS Updates”. Sulaminaya Hospital. Manama, Bahrain. Invited by Dr. Jameela Al Salman and Dr. Miriam Al-Hajeri. MOH Public Health Directorate. Sept. 19.
- 2013: Invited speaker on MERS: Eastern Mediterranean Public Health Network (EMPHNET) Conference. Marrakech, Morocco. Dec 5. Invited by Dr. Mohannad al-Nsour, Executive Director, EMPHNET.
- 2014: Consultant for Middle East and South Asian Networks, Program for Monitoring Emerging Diseases (ProMED). Dr. Madoff, Editor.
- 2014: NIH-funded speaker on MERS at workshop on Emerging & Endemic Viral Diseases in MENA, Doha, Qatar. May 26-29.
- 2014: Working as a physician in Ebola Testing and Treatment Units in Liberia (MSF) & Sierra Leone, & Ministries of Health (Aug & Nov)
- 2014: One of Thousands: “The Ebola Fighters: Person of the Year”. Time.
- 2015: Curator (content), Smithsonian National Museum of Natural History: Core Committee planning for 2017-2019 Exhibit on Global Infectious Disease Outbreaks (May, 2015-) 2014 *Original proposer for Exhibit*.
- 2015: Invited Speaker: Helping patients Survive Ebola in Liberia. 1st Asia-Pacific Parliamentarian Forum on global Health. Conrad hotel. Seoul, Republic of Korea. July 2nd. Invited by Dr. Jong-Koo Lee. Director, JW Lee Center for Global Medicine. Seoul.
- 2015: Member, Medecins Sans Frontiere (MSF) recipient of the Lasker-Bloomberg Public Service Award for fighting Ebola in West Africa.

Professional Societies

Infectious Disease Society of America (Fellow)
 International Society for Infectious Diseases (ISID)
 American College of Physicians (Fellow, FACP)

American Public Health Association (APHA)
Medical Society of DC (MSDC)
DC Hospital Association (DCHA)

Grant Review Study Section

1996: National Institute of Mental Health HIV Immunology Special Review Panel
1996: Immunology Core Laboratories Pediatric AIDS Clinical Trials Group
1997: NIMH HIV Immunology Special Review Panel
1999-2001: Medstar Research Institute Grant Committee

Editorial Boards

1. Clinical & Diagnostic Laboratory Immunology: 1994-2002.
2. Journal of the Acquired Immune Deficiency Syndrome: 1994-2002.
3. E-Medicine Online Textbook of Medicine and Surgery. Infectious Disease Section: 2000-2004.

Journal Reviewer (Past Ad Hoc reviewer)

Clinical Infectious Diseases, J Am Med Assn (JAMA), Clinical & Diagnostic Laboratory Immunology, Journal AIDS, J Infectious Diseases, New England J of Medicine, J Immunology, J Clinical Investigation, J Virology, Am J Resp Cell & Molec Biology, J Clinical Immunology. Pediatric Research, Am J Trop Med & Hygiene, Biosecurity & Bioterrorism: Biodefense Strategy, Practice, and Science, Institute of Medicine (IOM), Critical Care Medicine.

Invited Lectures

1986-1988

1. Annual Lecturer (3 years): "AIDS Pathophysiology and Therapeutics"
Massachusetts College of Pharmacy, Boston, MA.

1987

2. Trichinosis: Clinical-Pathological Features
Harvard School of Public Health (TPH 205c) Lecturer
3. Medical Grand Rounds Speaker
"AIDS: Update on Clinical Research", Danvers, MA.

1988

4. Medical Grand Rounds Speaker:
"HIV/AIDS: Common Clinical Problems", Haverhill, MA.
5. Speaker: "AIDS: The Disease"
U.S. Public Health Service Workshop: "The Impact of the AIDS Epidemic on State Legislatures", Boerne, Texas
6. Speaker: "Mature Human Eosinophils have the capacity to Express HLA-DR." Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Los Angeles, CA.
7. Speaker: "Human Eosinophils can express CD4 and HLA-DR and Bind HIV GP120. 37th Annual Meeting of the American Society of Tropical Medicine and Hygiene (ASTMH). Washington, D.C.

1989

8. Speaker: "Markers of Disease Progression in the USAF HIV Natural History Study" Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Houston, TX.
9. Lecturer: "AIDS and Substance Abuse"

- Social Actions Workshop, Randolph AFB, Texas
10. Allergy-Immunology Grand Rounds Speaker:
 "Novel Antigen Expression by Human Eosinophils"
 Wilford Hall USAF Medical Center, Lackland AFB, TX.
 11. Lecturer: U.S. Air Force Global Medicine Course
 "Hemorrhagic Fevers: Ebola, Marburg, Lassa, Congo-Crimean"
 Brooks AFB, Texas
 12. Speaker: "Common HIV-Associated Infections"
 Arkansas Medical Society, Hot Springs, Arkansas
 13. Speaker: "The Cultured Eosinophil"
 Clinical Immunology Division
 University of Texas Health Science Center, San Antonio, TX.
 14. Speaker: "New Developments in HIV/AIDS"
 San Antonio Internists Society, San Antonio, Texas
- 1990**
15. Medical Grand Rounds Speaker:
 "Will the Band Play on?" The HIV/AIDS Pandemic in 1990"
 Wilford Hall USAF Medical Center, San Antonio, TX
 16. American College of Physicians (ACP) Speaker:
 Infectious Disease Lecture for Internal Medicine Board Review
 San Antonio, Texas
 17. Speaker: "Predictors of HIV Disease Progression in Personnel
 with Three Wilford Hall Medical Center Evaluations". Society
 of Air Force Physicians Annual ACP Meeting. San Antonio, Tx.
 18. Blood Banking Seminar Series Speaker:
 "Transfusion-Associated Infectious Diseases"
 Wilford Hall USAF Medical Center, San Antonio, TX
- 1991**
19. Infectious Disease Grand Rounds Speaker:
 "HIV Infection in the U.S. Air Force"
 Vanderbilt University Medical Center, Nashville, Tennessee
 20. Speaker: "Antibody in spinal fluid against the V3 loop and
 Other HIV-1 envelope regions". Laboratory of Tumor Cell
 Biology, NCI/NIH Annual Meeting, Bethesda, MD.
 21. Speaker: "Will HIV vaccine therapy work in the brain?"
 Sixth Annual Conference, Uniformed Services University of the Health
 Sciences, Bethesda, MD.
- 1992**
22. Moderator: Infectious Diseases Section
 Air Force ACP Meeting, San Antonio, Texas
 23. "Substance P, the SP Receptor & HIV-1 Pathogenesis:
 Is the SP Receptor the fusion receptor for HIV gp41?"
 USAF Infectious Disease Society Meeting, San Antonio, TX
 24. Speaker: "HIV Isolation, Detection, and Clinical Markers"
 Air Force "Train the Trainer" Course, San Antonio, Texas
- 1993**
25. Speaker: "The Immunology of HIV/AIDS"
 Experimental Immunology Branch Summer Seminars
 National Cancer Institute, NIH, Bethesda, MD.
- 1994**
26. Speaker: "The Immune Response to HIV-1"

- Sixth Annual Conference on AIDS in America, Houston, Texas
27. Medical Grand Rounds Speaker:
 "Immune Responses and Natural History of HIV-1:
 Lessons from the First 15 Years". Andrews AFB, Wash, D.C.
 28. Speaker: "Spinal Fluid Immunologic markers in HIV-1
 Implications for pathogenesis and therapy".
 FDA Virology Seminar, Bethesda, MD.
 29. Speaker: "The Immunology of HIV/AIDS"
 Experimental Immunology Branch Summer Seminars
 National Cancer Institute, NIH, Bethesda, MD.
 30. Speaker: "Spinal Fluid Immune Responses against HIV"
 ARTA International Conference, Innsbruck, **Austria**
- 1995**
31. Speaker: "The Immunology of HIV/AIDS"
 Experimental Immunology Branch Summer Seminars
 National Cancer Institute, NIH, Bethesda, MD.
 32. Speaker: "Understanding the Immune Response to HIV"
 Seventh Annual Conference on AIDS in America, Houston, Texas
 33. Speaker: "The type 1/type 2 Cytokine Dysregulation
 Model for HIV-1 Pathogenesis: A 1995 Perspective". American
 Society of Photobiology Annual Meeting. Washington, D.C,
 34. Speaker: "Comparison of IL-15 and IL-2 in HIV production
 from peripheral blood mononuclear cells". American Federation
 for Clinical Research (AFCR). San Diego, CA.
- 1996**
35. Speaker: "Cytokines, chemokines, and HIV-1 fusion receptors:
 Are there lessons for the CNS from the periphery?"
 University of Miami School of Medicine, Miami, Florida
 36. Speaker: Medical Grand Rounds
 "1996 Update on Anti-HIV Drug Therapy"
 Wright-Patterson AFB, Dayton, Ohio
 37. Speaker: Medical Grand Rounds
 "New Vaccines & Naked DNA on the Bicentennial of
 Vaccinology". National Naval Medical Center, Bethesda, MD
- 1997**
38. Speaker: "HIV in the Larger Context of Vaccinology: Are There
 Lessons from the Minotaur and the Maze?"
 "DIA Meeting on Current Aspects of Vaccinology, Dana Point, CA
 39. Speaker: "RANTES: Functions, Receptors, Potential Therapies"
 NIAID/NIH Friday morning conference, Bethesda, MD.
 40. Speaker: "Chemokine receptors in HIV and Inflammation"
 NIH Critical Care Conference. Bethesda, MD.
 41. Speaker: "A History of HIV Vaccines in the year 2007:
 Sisyphus or Apollo? "NIAID/NIH ID Noon Seminar, Bethesda, MD.
 42. Speaker: "HIV Vaccines"
 U of Capetown Medical School, Capetown, **South Africa**
- 1998**
43. Speaker: "Eosinophils and Eosinophilia: A 1998 perspective"
 The 11th Annual Tri-Service Infectious Disease Conference
 San Diego, California
 44. Speaker: "Smallpox and Polio Global Eradication Programs"

Tropical Medicine Public Health Course, USUHS Medical School
Bethesda, MD

45. "Clinical Safety and Ethics of Live, Attenuated HIV Vaccines"
NIH/FDA International Conference on Live, Attenuated HIV Vaccine
Vienna, Virginia
 46. Speaker: "Lyme Disease Vaccine". NIAID/NIH Infectious Disease
Conference. Bethesda, MD.
 47. FDA Speaker: Review of a Lyme Disease Vaccine. FDA Vaccine
Advisory Committee Meeting. Bethesda, MD
 48. Speaker: Medical Grand Rounds
"Eosinophils and Eosinophilia: Bench to Bedside"
Washington DC VA Hospital
 49. Speaker: "HIV Vaccines"
AIDS Research and Control Conference
Mumbai (Bombay), **India**
- 1999**
50. Speaker: Medical Grand Rounds
"Eosinophilia as a Diagnostic Clue for the Clinician" Malcolm Grow Medical
Center, Andrews AFB, Washington, DC
 51. Speaker: "New Vaccines: Evaluation & Regulation in the USA" Universidad
Peruana Cayetano Heredia. Tropical Disease Institute, Lima, **Peru**. (Dr.
Eduardo Gotuzzo, Director of Insitute).
 52. Speaker: "The Macrophage: Bench to Bedside" Clinical Immunology & Pathology
Seminar. Washington Hospital Center, Washington, DC.
 53. Speaker: "The Eosinophil: Bench to Bedside". Medical Grand Rounds, Washington
Hospital Center, Washington, DC.
 54. Speaker: "Miliary Tuberculosis and HIV" Washington DC
Tuberculosis Forum, Washington DC General Hospital Auditorium.
 55. Speaker: "HIV Surrogate Markers in 1999". American Association of Chemical. New
Orleans, LA.
 56. Speaker: Grand Rounds "Antibiotic Resistance". Calvert Memorial Hospital,
Maryland.
 57. Speaker: "Cytokines and Inflammatory Diseases" Surgery Lecture Series.
Washington Hospital Center. Washington, DC.
 58. Speaker: "Clinical Immunology of Eosinophils": Danish Society of Tropical Medicine
meeting. Copenhagen, Denmark.
 59. Speaker: "HIV Update 1999: Chemokines to HAART". Washington Hospital Center,
Medical Grand Rounds.
 60. Speaker: "HIV Update 1999": Children's National Medical Center,
Adolescent Medicine Grand Rounds. Washington, DC.

2000

61. Speaker: "Influenza: Diagnosis, Treatment and Prevention". Surgical ICU
Conference. Washington Hospital Center. Wash., DC.
62. Speaker" Emerging Infectious Diseases: West Nile Virus to
Vancomycin-Resistant Staphylococcus Aureus". Washington Hospital
Center Winter CME Course. Telluride, CO.
63. Speaker: "Antibiotic Resistant Bacteria and Emerging Diseases I"
Annual Medicine Update for State Department Medical Personnel.
Uniformed Services University of the Health Sciences, Bethesda, MD
64. Speaker: "Antibiotic Resistant Bacteria and Emerging Diseases (Nipah) II"

- Annual Medicine Update for State Department Medical Personnel.
Uniformed Services University of the Health Sciences, Bethesda, MD
65. Speaker: "West Nile Virus in DC-Baltimore? Of Mosquitoes, Meningoencephalitis, and Medstar Health. Department of Medicine Grand Rounds. Washington Hospital Center. Wash., DC.
 66. Speaker: "Antibiotic Resistance and Osteomyelitis. Musculoskeletal Sepsis symposium. National Rehabilitation Hosp. Wash. DC
 67. Speaker: "The role of Chemokines in HIV infection". Clinical Immunology Seminar. Washington Hospital Center. DC.
 68. Speaker: Medicine Grand Rounds: "West Nile Virus Update 2000" Union Memorial Hospital, Baltimore, MD
 69. Speaker: OB/GYN Grand Rounds: "Hepatitis C". Washington Hospital Center. Washington, DC.

2001

70. Discussion leader: HIV: Diagnosis and clinical management. 2nd year Medical students. USUHS, Bethesda, MD. Dr. (COL) Naomi Aronson, Course Director.
71. Speaker/Moderator: Grand Rounds: " Neurologic Complications of "Endocarditis". Washington Hospital Center.
72. Speaker: "Viral Hepatitis": 2nd year Georgetown University Medical School students basic science Microbiology Course. January 31st Georgetown Medical School, Washington DC. (Dr. Len Rosenthal/Dr. John Reichert)
73. Speaker: "Influenza and West Nile Virus: the WHC Response". CME Course Washington Hospital Center Feb 12th. Snowmass, CO.
74. Speaker: "Viral Meningitis" 2nd year Georgetown University Medical School students basic science Microbiology Course. February 14th. Georgetown Medical School, Washington DC.
75. 'Biowarfare preparedness'. Sept 11th (11am-noon) Department of Medicine Emergency meeting. Summary tables on biowarfare agents (handouts). Washington Hospital Center, Washington DC.
76. Discussant: Meeting with DC Department of Health Director and President DC Hospital Association. Two page summary handout on bioterrorism agents and stockpiling of N-95 masks and doxycycline. Washington Hospital Center. October 1st (Monday).
77. Speaker: "Bioterrorism: Preparedness not Panic". Medicine Grand Rounds Department of Medicine. Wash Hospital Center, Oct 10th.
78. Speaker: "Bioterrorism Preparedness". Washington Area Critical Care Society. NIH (Dr. Masur). Bethesda, MD. Thurs Oct 11, 2001.
79. Speaker: "Anthrax in America 2001": NIH Infectious Disease Grand Rounds (NIAID). October 12 Friday 9 am. (Videotaped for NIH use).
80. Speaker: "Clinical Aspects of Anthrax": Symposium Nov 3rd. Greater Washington Infectious Disease Society (GWIDS). Bethesda, MD
81. Speaker: "Bioterrorism Defense". American College of Physicians regional meeting. Nov 10th. Bethesda, MD.
82. Speaker; Medical Society of DC annual meeting. "Medical Education: Vaccinating against fear". Nov 14th. Washington DC.
83. Speaker: Smallpox: Recognition and ER Management. WHC Emergency Dept Conference (Dr. Mark Smith, Director). Dec 6th.
84. Speaker: "Anthrax in Washington DC" Brown University Medical Center Infectious Disease Grand Rounds. Providence, R.I. Dec 12th.

85. Speaker: "Anthrax": Interscience Congress on Antimicrobial Agents and Chemotherapy (ICAAC). ("Meet the Expert session"). Chicago, IL. Dec 18th.
 86. Speaker: "Smallpox: The CDC plan for 2002". Medicine Grand Rounds. Washington Hospital Center, DC. Dec 19th.
 87. Speaker: Bioterrorism local updates at multiple meetings including Washington Hospital Center OR Nurses Grand Rounds, The Medical Board, the WHC Foundation, the WHC Medical and Dental Staff Town Meeting, the Medstar Board Meeting, TV (CNN and local), newspaper, and radio (local and Voice of America), & others
- 2002**
88. Speaker: "Smallpox and Anthrax: 2002 Update" Washington Hospital Center DC/MD/VA regional bioterrorism inaugural Conference. January 12, Washington, DC
 89. Speaker: "Smallpox & Anthrax". Montgomery County (Maryland) Medical Society: January 15, Bethesda, MD.
 90. Speaker: "Viral Hepatitis": 2nd year Georgetown University Medical School 2nd year medical students basic science Microbiology Course. January 31st. Georgetown Medical School, Washington DC
 91. Speaker: "Viral Meningitis" 2nd year Georgetown University Medical School students basic science Microbiology Course. February 13th. Georgetown Medical School, Washington DC.
 92. Speaker: "Anthrax in DC: One Clinician's View". Johns Hopkins Medical Center. (Bioterrorism Task Force). Feb 9. Baltimore, MD
 93. Speaker: "Anthrax in DC: One Clinician's View". 5th Annual Infection Control Conference. Baltimore VA Hospital. Feb 9th. Baltimore, MD
 94. Speaker/Organizer: "The US Anthrax Vaccine". 2nd Regional DC/MD/VA bioterrorism forum. Feb 9th. Wash Hospital Center, DC.
 95. NIAID/NIH ID Grand Rounds: "One DC Hospital's Preparation for & Response to Bioterrorism". NIH Clinical Center. Feb 15th.
 96. "Anthrax in DC 2001": Einstein Montefiore-Jacoby ID Grand Rounds. NYC. Feb 20. Visiting Professor Rounds.
 97. Eosinophils and Eosinophilic Diseases. Medicine Grand Rounds. Einstein Montefiore-Jacoby Medical Centers. NYC. Feb 21st.
 98. "Response to Anthrax in DC: 2001": Ohio State University Medical Center Infectious Disease conference, Columbus, Ohio. March 4.
 99. Speaker: Bioterrorism Update 2002. Annual Clinical Infectious Disease Review Course. NY City, NY. March 15 (Dr. Henry Masur).
 100. Speaker: "Tularemia as a Bioterrorism Agent: Preparedness not panic". 3rd Regional Bioterrorism Forum. Washington Hospital Center, Wash DC. March 23rd.
 101. "Bioterrorism in DC 2001". St Agnes Medical Center Grand Rounds. Philadelphia, Pa. March 27.
 102. Panel Discussant: Public Health-Hospital Interface making the system work. National Disaster Medical System (NDMS). National Annual Conference April 15, 2002. Atlanta, Ga.
 103. Smallpox Vaccination: Risk/Benefit Debate. 4th Regional Bioterrorism Forum. Washington Hospital Center, Wash DC. April 27th.
 104. Speaker: "Smallpox, Anthrax, and HIV: Bioterrorism 2002". Georgetown Medical School. Department of Immunology and Microbiology. May 14. (Dr. Len Rosenthal).

105. "Plague: *Yersinia Pestis* as a Bioterrorism Weapon." And "How to use the bifurcated needle for smallpox vaccination". 5th Regional Bioterrorism Forum. Washington Hospital Center, DC. May 18th.
106. Speaker/Panelist. "Medical and Public Health Aspects of Bioterrorism". "Anthrax in DC 2001: Lessons for Anthrax 2002". Johns Hopkins School of Public Health/Center for Civilian Biodefense Strategies. (Dr. O'Toole/Dr. Inglesby). June 12.
107. "How to use the bifurcated needle for smallpox vaccination". DC Infection Control (APIC) regional meeting. Montgomery County (MD) Department of Health center. June 18
108. Speaker/Organizer: "Botulism as Bioterrorism", and "Update on new smallpox vaccination recommendations". 6th DC/MD/VA Regional Monthly Forum on Bioterrorism. June 29th. Wash Hosp Center, DC.
109. "HIV, Smallpox and Smallpox Vaccination: The Patient and the Public Health". Int'l Conference on AIDS. Barcelona, Spain. July 8th. Abstract # MoPeG4202.
110. Discussant: "Update on smallpox vaccination and use of the bifurcated needle for smallpox vaccination". 7th DC/MD/VA Regional Monthly Forum on Bioterrorism. Wash Hospital Center, DC. July 20.
111. Panelist on Bioterrorism Defense. District of Columbia Academy of Medicine. July 27th.
112. Invited panel member (FDA). Discussion on treatment studies for plague as a bioterrorism agent. August 13th. Rockville, MD.
113. 8th DC/MD/VA Regional Monthly Forum on Bioterrorism. Wash Hospital Center, DC. Use of the bifurcated needle for smallpox vaccination. Aug 24th.
114. Speaker: "Smallpox vaccination: risk groups, side effects, VIG, and use of the bifurcated needle". Calvert County Health Dept., Maryland. Sept 6. (Ashley Conway, RN).
115. "Use of the bifurcated needle for smallpox vaccination". Fairfax County smallpox contingency committee. Inova Fairfax Hospital, Va. Sept 19th (Drs. Dan Keim, Diane Dubinsky, Carol Sharrett).
116. Organizer. Georgetown-Medstar workshop on bioterrorism .
Speaker: "Smallpox vaccination in DC and the USA". Sept 17th.
Georgetown Medical School, Washington, DC.
117. DC Department of Health consultant and group leader for DC smallpox vaccination planning. 825 N. Capitol St. Sept 21-22.
118. Medscape website writer on bioterrorism presentations at the annual International Congress on Antimicrobial Agents and Chemotherapy (ICAAC). Sept 27-30. San Diego, CA.
119. Speaker: "Emerging Infections". Academy of Medicine of DC. The Cosmos Club. Wash DC. Oct 2nd.
120. Speaker: "Smallpox Vaccination 2002: Scylla or Charybdis". MultiSector Crisis Management Consortium. Arlington, Va. Oct 16.
121. Mayor's Bioterrorism Preparedness and Response Committee. Presentation of overview on smallpox vaccine, anthrax lessons, and a protocol for pneumonic plague (40 binders and videotapes distributed to committee members). Oct 16th.
122. Speaker: "Bioterrorism". Infectious Disease Educational Associates of Pennsylvania" (IDEAS). Harrisburg, Pa. Oct 17th.
123. Organizer/Speaker: Smallpox Vaccination: Technique, Contraindications, Adverse Reactions. DC Department of Health. Oct 18th. (Videotaped).

124. Organizer/Speaker: 10th DC/MD/VA Regional Monthly Forum on Bioterrorism. Wash Hospital Center, DC. "Plague Pneumonia: A clinical protocol". October 19th.
125. "Speaker: "Anthrax 2001: the Hourglass Concept. Case Study on Biological Disaster". Joint Commission (JCAHO) Wash DC. Oct 24th.
126. Distribution of 25 "BE PAST" (26 x 18 inch large) color posters. DC Hospital Association Emergency Preparedness Committee meeting with Dr. Jeff Elting. Wash Dc. Nov 4th.
127. "Bioterrorism and Smallpox Vaccination Update". Annual meeting of the Greater Washington area chapter of the American Association of Critical Care Nurses. Beltsville, MD. Nov 6.
128. Demonstration: Smallpox Vaccination Technique, Contraindications, Adverse Reactions. Medical Society of DC annual meeting. DC Dept of Health Certification Training. Washington DC. Nov 6.
129. Lehrer News Hour story: DC Dept of Health smallpox vaccine training and education session. Nov 14.
130. "Preparing for Bioterror": (Public stockpiling of surgical masks for plague pneumonia). Letter to the Editor. NY Times. (p. A26). Nov 15.
131. Smallpox Vaccine Education & Training Module: Upper Cardozo Clinic & Unity Health Care. 3020 14th St NW, Washington DC. DC Dept of Health Certification Training. Nov 19th.
132. Smallpox Vaccine Education & Training Module. Charles County, Physician CME forum. Waldorf, Maryland. Nov 19.
133. Smallpox Vaccine Education and Training Module. Charles County Department of Health Nursing training forum. Waldorf, Md. Nov 20.
134. Organizer/Speaker. 11th monthly DC/MD/VA regional bioterrorism preparedness forum. Washington Hospital Center, DC. Smallpox vaccination education and training with DC Dept of Health certification, 10 clinical pearls on anthrax for clinicians, plague pneumonia protocol. Nov 22.
135. "Small vaccination planning in Washington DC: 2002". National Institutes of Allergy & Infectious Disease (NIAID), NIH Friday Grand Rounds. (Distribution of "BE PAST" bioterrorism educational poster) Nov 22.
136. Smallpox Vaccination medical and policy issues. Background discussion with Congressional Staffers. Dirksen Building, Washington DC. Nov 22.
137. Category A Bioterrorism Agents: "BE PAST" poster discussion. DC Mayors Bioterrorism Preparedness Committee, and the Smallpox Vaccination Committee of the DC Dept of Health. 825 N. Capitol St. Wash, DC. Nov 22.
138. Category A Bioterrorism Agents: "BE PAST" poster presentation. Washington Metropolitan Council of Governments (COG). 777 N. Capitol St. Nov 25.
139. "Fundamentals of Bioterrorism: Anthrax in DC 2001". First Year Medical Students, Ohio State University Medical School. Dec 3. Columbus, Ohio.
140. "Smallpox Vaccine training and use of the bifurcated needle". DC Medical Society 2175 "K" St. Washington, DC. Dec 11. (National Public Radio "All Things considered").
141. "DC Planning for Smallpox Vaccination". Northern Virginia Emergency Response Coalition (NVERC). Virginia Medical Center, Arlington, Va. Dec 16.
142. Organizer: 12th monthly DC-Maryland-Virginia regional bioterrorism preparedness forum. "Smallpox Vaccine Safety Monitoring". Dr. Neal Halsey, lead discussant. Johns Hopkins School of Public Health. Washington Hospital Center. Dec 18th.

143. "Smallpox Vaccine training and use of the bifurcated needle". DC Medical Society 2175 "K" St. Washington, DC. Dec 18.
144. "Smallpox Vaccination: the US Plan for 2003". Grand Rounds. Providence Hospital. Washington, DC. Dec 19.

2003

145. "Update on Smallpox Vaccination in the USA". Grand Rounds. Franklin Square Medical Center-Medstar Health. Baltimore, MD.
146. "Smallpox Vaccine training and use of the bifurcated needle". DC Medical Society 2175 "K" St. Washington, DC. Jan 9.
147. "Smallpox Vaccine Update in 2003": Georgetown University Medical Center Triannual Professional Staff Meeting. Jan 9.
148. Co-Organizer: 13th monthly regional bioterrorism preparedness forum. "The Return of smallpox vaccination in 2003". Dr. DA Henderson. HHS and Johns Hopkins University. Jan 22. Washington Hospital Center (videotaped).
149. "Smallpox Vaccination in the DC region and other bioterrorism preparedness issues (ricin toxin, botulinum toxin, anthrax). January. DC Hospital Association ID/IC committee. 1250 "I" St. Wash DC.
150. "Smallpox vaccination update, Fairfax, Virginia mass vaccination plan, NPS ventilator distribution. Feb 12. DC Hospital Association Infectious Disease/Infection Control Committee. Washington, DC.
151. "Smallpox Vaccine Clinic Management". DC Department of Health. Feb 12th. Washington Hospital Center. Washington, DC.
152. "What every clinician should know about the smallpox vaccine". Co-Organizer and speaker with DC Department of Health. 14th regional monthly bioterrorism preparedness forum. Hands-on training (videotaped and TV) on use of the bifurcated needle to give the vaccine. Feb 25th. Washington Hospital Center auditorium. Washington, DC.
153. Co-Organizer and speaker. "HIV and Smallpox Vaccination Issues". "SARS": Day 9 after the WHO Global alert". 15th monthly DC-Maryland-Virginia monthly bioterrorism preparedness forum. Washington Hospital Center. March 21st
154. Panel discussant: "Smallpox Vaccination in 2003". Annual Spring Symposium. Greater Washington Washington Infectious Disease Society (GWIDS). March 22.
155. Speaker: "From Smallpox to SARS". Annual Meeting of the American Burn Association. April 2. Miami, Florida.
156. Tabletop Exercise Co-Organizer and Facilitator-Moderator: Smallpox Attack in the National Capitol Region (275 participants from DC-MD-VA) April 14.
157. Speaker: "From Smallpox to SARS". Ohio State University Medical Center Leadership Council Seminar. Columbus, Ohio. April 24th.
158. "Update on SARS and SARS Contacts". 1st DC Department of Health and DC Regional SARS preparedness Task Force Conference. DC Hospital Association. 1250 "Eye" St. NW. May 13th.
159. Speaker: Smallpox to SARS: Similarities in Preparedness in DC. Georgetown Medical School. Department of Microbiology and Immunology. New Research Bldg Auditorium. May 21st.
160. "SARS and SARS Contacts: An Update" Metropolitan DC Council of Governments (COG) Bioterrorism Task Force. 777 N. June 2nd.
161. "Bioterrorism Preparedness". Internal Revenue Service. 1111 Constitution Ave, Washington DC. June 12th.

162. "SARS: Where Next?" Medicine Grand Rounds. Scarborough General Hospital, Toronto, Ontario, Canada. July 8th.
163. "SARS: A tabletop exercise forum in the Nation Capitol Region" DC-Virginia-Maryland multidisciplinary forum (140 persons). Arlington, Virginia. July 21.
164. Invited Speaker. "Anthrax and Vaccinia": Lessons learned in the USA since 9/11". Queen Mary Hospital Department of Microbiology. **Hong Kong**. Sept 5th.
165. Medicine Grand Rounds: "Anthrax and Vaccinia": Lessons learned in the USA since 9/11". Prince of Wales Hospital. **Hong Kong**. Sept 6.
166. Invited Speaker: "Anthrax in the USA 2001 and SARS in Toronto 2003". Infectious Disease Division, 3rd Affiliated hospital. Sun Yat-Sen University, Guangzhou, Guangdong Province, **China**. Sept 9.
167. "Eosinophilia: A Clue to Surprising Diagnoses". **Hong Kong** Infectious Disease Society and Prince of Wales Hospital. Sept 10.
168. "Updates on smallpox vaccinations and on SARS". American Osteopathic College of Anesthesiology annual meeting. Sept 23. Naples, Florida.
169. "SARS: Lessons from Guangzhou, Hong Kong, and Toronto." Baltimore County Health Department. Sept 25. Baltimore, MD.
170. "Preparing for SARS". Grand Rounds. Department of Emergency Medicine. Franklin Square Medical Center. Baltimore, MD.
171. "SARS: Lessons from Toronto and China". Co-Organizer. "SARS in Amoy Gardens, Hong Kong, March 2003". Speaker. The Third National Capitol Region Symposium on Infectious Disease Threats (~ 225 persons). Bethesda, Maryland. October 20th.
173. "SARS Preparedness: Lessons from Guangzhou, Hong Kong, and Toronto". Medical Society of DC. 2175 K Street NW. Washington DC. Oct 21st. Tabletop Exercise for the National Capitol Region.
174. "Smallpox Vaccine Symposium: The US Program". Hong Kong Department of Health. Wan Chai, **Hong Kong**. Nov 1st.
175. "SARS Update": American Association of Critical Care Nurses Greater Washington Area chapter Annual Meeting, Greenbelt, Maryland. Nov 6th.
176. "International Biodefense". Presentation to the NIAID Executive committee (Dr. Fauci). Nov 13.
177. "SARS: From Guangzhou to Hong Kong". Johns Hopkins Infectious Disease (Dr. John Bartlett) conference. Nov 17.
178. "Emerging Disease Threats 2003: West Nile Virus to SARS". Annual Meeting of the Medical Society of DC. Washington DC. Nov 20.
179. "Global Epidemics: A Comparison of AIDS, Smallpox, and Plague". World AIDS Day (Dec 1). Georgetown Medical School. Department of Microbiology and Immunology (Dr. Rosenthal). Washington DC.
180. "Hong Kong and China SARS Update: Autumn 2003". Washington Metropolitan Council of Governments (COG) Bioterrorism Task Force (COG-BTF). 777 N. Capitol St. NW. Wash. DC Dec 2nd.

2004

181. "West Nile Virus as an Emerging Disease in the USA". Grand Rounds, Infectious Disease Division. 3rd Affiliated Hospital, Sun Yat Sen University, Guangzhou, Guangdong Province, **China**. Jan 15th.

182. "Infection Control Recommendations for the 6 CDC Category A Bioterrorism Agents". Chinese University of Hong Kong Centre for Emerging Infectious Diseases. Sha Tin, New Territories, **Hong Kong**. Jan 16.
183. "H5N Avian Influenza and SARS". Feb 13. DC Department of Health Grand Rounds. Washington DC.
184. Keynote Speaker Award. "Bioterrorism Preparedness". Annual Meeting of the Hong Kong Infectious Disease Society. **Hong Kong** Convention Center. (March 6).
185. "H5N1 Avian Influenza: The Coming Pandemic?" DC Department of Health Emergency Health Reserve Corps (EHRC). Gallaudet University. Washington DC. (March 27).
186. "LEAD-in –the-drinking-water in Washington DC". Over 20 community talks, press conferences, TV and radio interviews. Feb-April. Washington, DC Dept of Health Interim Chief Medical Officer.
187. "From Smallpox to SARS 2002-2004". Georgetown Mini-Med School. Speaker, and Course Co-Organizer with Len Rosenthal, Ph.D. Georgetown Medical School Department of Microbiology and Immunology. Washington, DC.
188. Keynote Speaker: "Preparing and Responding to Public Health Crises: From Anthrax to Lead-in-the-Water". Conjoint Scientific Meeting. Annual Conference of the Hong Kong Societies of Community Medicine and Family Medicine. Aberdeen, **Hong Kong** (April 19).
189. "Lessons from the USA on Inhalational Anthrax ". Department of Infectious Diseases. Dr. Arne Tarnvik, Director. University of Umea, Umea, **Sweden**. (July 9).
190. "Inhalational Anthrax: A new staging system and other Lessons from 2001". Dean Sornchai Loareesuwan/ Dr. Sukthana Faculty of Tropical Medicine. Mahidol University, Bangkok, **Thailand**. (Sept 16th)
191. Tabletop Exercise: Smallpox. Hospital subgroup discussion leader-facilitator. SUNY-Downstate Medical Center, New York City.
192. Emerging Respiratory Diseases Symposium: "A View from the Ground: 'Asia and Toronto 2003-2004 from SARS to H5N1 Influenza'. Johns Hopkins Center for Public Health Preparedness and the Delaware Department of Health. Nov 22nd. Wilmington, Delaware.
193. World AIDS Day Lecture: Georgetown University School of Medicine. "The AIDS Pandemic compared with the Smallpox and Plague Pandemics" (Dec 1st).

2005

194. Invited speaker. "New therapeutic approaches and agents for improving responses to catastrophic terrorist attack." Gordon conference on Biologic and Chemical terrorism. Buellton, California. (Jan 30-Feb 4).
195. "H5N1 Avian Influenza 2003-2005: A view from Asia". Pandemic Influenza Symposium (Organizer). Georgetown University School of Medicine. Washington, DC. (Feb 16).
196. Preparing and Responding to the Anthrax 2001 attacks in DC. Panel discussion. Washington Hospital Center (WHC) Emergency Department and Georgetown School of Medicine Masters Course on Biohazardous Agents and Emerging Diseases. Wash. DC (4 April)
197. Invited presentation: 'Inhalational anthrax: A new staging system and combination therapy to include pleural fluid drainage: Implications for the Strategic National Stockpile'. UPMC-Biosecurity Center (Dr. O'Toole/Dr. Inglesby). Baltimore, MD. (May 16).

198. "From H5N1 Avian Influenza to Pandemic Human Influenza". Conference on Corporate Preparedness. Johns Hopkins School of Public Health. Baltimore, MD (May 16).
 199. "H5N1 Avian Influenza: The Coming Human Pandemic?" Massachusetts Institute of Technology (MIT) Lincoln Labs, Lexington, MA (June 1).
 200. Keynote speaker: "Lessons learned from the US Smallpox Vaccination Program 2002-2003" and "Updates on Inhalational Anthrax 2001-2005". Czech State Office for Nuclear Safety and Department of Control of Prohibition of Chemical and Biological Weapons. Prague, **Czech Republic**. (June 22).
 201. Visiting Professor. "2005 Updates on the Clinical Staging and Treatment of Anthrax". Shaanxi Provincial Hospital. Xi'an, **China**. (3 August).
 202. "Cytokine dysregulation and IL-4-poxviruses". MITRE. McLean, Virginia. (August 15)
 203. H5N1 Avian Influenza and the Pandemic Threat. American Red Cross Leadership conference. 2025 E St NW. Washington, DC. (Aug 25).
 204. "2005 Update on H5N1 Influenza and the next pandemic threat". 2nd Georgetown University Medical School Symposium of H5N1 Avian Influenza. Research Building Auditorium. Sept 22nd.
 205. "Update on H5N1 avian influenza: The Next Human Pandemic threat? St. Agnes Hospital, Baltimore chapter of APIC. Sept 27.
 206. "H5N1 Avian influenza Update". Marvin Conference Center, George Washington University, Washington DC. October 6.
 207. "Tularemia in Washington, DC September 24-25? MICB 523 Course. Georgetown School of Medicine. CBS Evening News interview on H5N1 avian influenza and the pandemic risk.
 208. Pediatric and respiratory mask issues with avian and pandemic influenza preparedness. DC-VA-MD Health Officer Committee (Dr. Gloria Addo-Ayensu, Chair) meeting for the Council of Governments (COG). 777 N. Capitol St. Washington, DC.
 209. Tabletop Exercise: Anthrax Aerosol Release on the DC Mall. MICB 523 Class Oct 21st. Georgetown School of Medicine.
 210. Symposium speaker and organizer: Pandemic Influenza. Mortara Center for International studies, Georgetown School of Foreign Service. Washington, DC. November 18. Keynote guest speaker. Dr. Ungchusak, Director of Epidemiology. Thailand Ministry of Health, Bangkok.
 211. Speaker: "Pandemic Flu Planning in the USA". Grand Rounds. Ministry of Health Hospital E. Ha Noi, **Vietnam**. (Dr. Doan Nghi, Hospital Director). November 28th.
 212. Speaker: "The New US Pandemic Flu Plan" Thailand Ministry of Public Health, Bureau of Epidemiology (Dr. Kumnuan Ungchusak, Director). Bangkok, **Thailand**. Dec 2nd.
 213. Speaker: "A New Anthrax Clinical Staging System and Defense against Aerosol Anthrax Attacks on US Cities". National Institutes of Health Biodefense Interest Group. Building 50. NIH Campus. Bethesda, MD. Dec 14th.
- 2006**
214. Keynote speaker: "Preparing for the next influenza pandemic". Junior Humanities and Science Symposium (DC-National Capitol Region High School Honors Students. Georgetown University. January 6th.
 215. Keynote Speaker: "Avian Flu H5N1 Global Update". Indian River Regional Pandemic Flu conference. Stuart, Florida. Feb 1st.

216. Department of Nursing Grand Rounds speaker on Avian and pandemic Flu. Winter Park Memorial Hospital, Orlando, Florida. Feb 2nd.
217. Speaker: "The Science and History of Influenza Pandemics". CNA Project Asia conference on pandemic influenza. Reagan Trade Center, 1300 Pennsylvania Ave. Feb 3rd.
218. "Lessons from SARS 2003 for Pandemic flu Preparedness 2006". George Washington University School of Medicine. Department of Emergency Medicine (Dr. Tenagne Haile Miriam). International Health Senior Medical Student Elective. Ross Bldg. March 1st.
219. "H5N1 Avian Influenza 2003-2006". "The WHO and US Pandemic Influenza Plans", and "What to do when the first patient with bird flu arrives in your hospital". Regional Bird Flu symposium, March 27-28. Cairo, **Egypt**. Sponsored by Project Hope, Egypt (Mr. Michael Forte—Director) and the Egyptian Ministry of Health National Training Institute (Dr. Nasr El-Sayed)..
220. H5N1 Avian Influenza and the threat of Human Pandemic Flu. Annual Transnational threat conference. Center for Strategic and International Studies (CSIS). 18th and K St. 26 April. Wash, DC.
221. DC Pandemic Flu Summit Panel Member on Medical Issues. 28 April. Gallaudet University, DC.
222. "Update on H5N1 and the threat of Pandemic Human Influenza". Kisiizi Hospital (Dr. Tonny Tesegweye, Superintendent) May 17. SW (rural) **Uganda**.
223. Training Course Coordinator on "Pandemic Flu: Hospital Preparedness". Egyptian Ministry of Health and Population (Dr. Nasr El-Sayed) and Project Hope-Egypt (Dr. Michael Forte). June 13-15. Cairo, **Egypt**.
224. Co-Organizer. Pandemic Flu Simulation Tabletop Exercise in the DC-National Capitol Region. July 19. Ross Hall, George Washington University Medical Center, Washington, DC.
225. Invited speaker. "Update on Vaccines: From Anthrax to Avian Flu". Annual National Meeting American Academy of Allergy and Clinical Immunology. Philadelphia, Pa. November (Dr. Daniel Ein, President).

2007

226. Invited Speaker: "Inhalational Anthrax: New Clinical Staging System and Therapies". CHUV: University Hospital in Lausanne. (Dr. Philip Tarr, sponsor). Lausanne, **Switzerland**. February 22nd.
227. Invited speaker: "Immune Survivors in the Management of Pandemic Influenza". First International Meeting on Emerging Diseases (IMED 2007) and Surveillance. Vienna, **Austria**. Feb 24th. (Member of the Meeting Organizing Committee).
228. Speaker: Emerging Infectious Diseases: SARS to H5N1 Avian Influenza". George Washington School of Medicine medical student seminar. March 2nd.
229. Invited speaker: "Immune Survivors in the Management of Pandemic Influenza". US Food and Drug Administration (FDA)/CDER. April 30. Bldg 29, Bethesda, Maryland. (DVD available---made for the FDA Commissioner's Office).
230. Invited speaker: "Immune Survivors of Pandemic Influenza". Imaging Sciences and Information Systems (ISIS) Center. Georgetown University, Washington DC. October 10th.

2008

231. Lecturer: "Malaria: The parasite, the disease, global epidemiology, and Control". MICB-524 "Emerging Infectious Diseases: Past as Prologue". Georgetown University Masters Program in Biohazardous Threat Agents and Emerging Infectious Diseases. Jan 25 and April 4. Team Captain for the "Georgetown Hoyas: Operation Bug Off" fundraising efforts with the UN Foundation to deliver malaria bednets (www.NothingButNets.net/Georgetown).
232. Invited speaker: "Modern Transportation and Infectious Diseases". Koshland Museum of Science (National Academy of Sciences), Washington, D.C. March 5.
233. Invited speaker: "Lessons Learned: SARS and Avian Flu". George Washington University Department of Emergency Medicine seminar on Emerging Infectious Diseases. March 5. (Dr. Larissa May and Dr. Tenagne Haile-Miriam).
234. Invited speaker: "Emerging Infectious Diseases". The Presidential Classroom student course. Georgetown University Conference Center (John Croft). March 17.
235. Primary Organizer and Panel Chair, First World Malaria Day, Georgetown University, Gaston Hall, April 25th.
236. Invited Speaker: "Malaria 2008: New Reasons for Hope in Rolling Back an Epidemic". Ohio State University Medical Center annual Global Health Day. May 19. Meiling Hall. Columbus, Ohio.
237. Invited speaker. Rolling Back Malaria in 2008 and Beyond. Global Health Day. Georgetown University Medical Center. May 27th. Med-Dent Bldg.

2009

238. "2001-2009: Bioterrorism Preparedness in the USA". Medical Grand Rounds. Burderholz Cantonhospital. Basel, **Switzerland**. Feb 13th. (Invitation from :Dr. Philip Tarr, Chief of Infectious Diseases Service).
239. Session Moderator on Outbreak Communication. International Meeting on Emerging Diseases on Surveillance (IMED). Vienna, **Austria** Feb 16th.
240. Invited speaker: "The Novel Influenza A (H1N1) Epidemic: Global Spread". June 2nd. Ain Shams University, Cairo, **Egypt**. Invitation from Dr. Nematallah Gomaa Ahmed).
241. Discussion on the novel Influenza A (H1N1) and on Avian Influenza A (H5N1) at NAMRU-3 in Cairo, **Egypt**. June 3rd (with Dr. Jeffrey Tjaden, Director, Virology Department).
242. Discussion on pandemic Influenza A (H1N1) at the Giza (Cairo) Chest Hospital with pulmonary physicians and thoracic surgeons. (Invited by Dr. Mohammad Rashad). **Egypt**. June 24th.
243. Invited speaker. "Update on Pandemic H1N1 Influenza". Ain Shams University conference. Cairo, **Egypt**. Invitation from Dr. Nematallah Gomaa Ahmed and colleagues. November.

2010

244. "Eosinophilia in Travelers". Lima, **Peru**. January 18. Invited by Dr. Eduardo Gotuzzo, Director, Tropical Disease Institute, Universidad Peruana Cayetana Heredia.
245. Invited speaker: "Pandemic Influenza 2009-2010: Lessons and Policy". Georgetown University Public Policy Institute. March 2.

- 246. Invited speaker: "Clinical Differentiation of Natural vs Intentional Infectious Disease Outbreaks." Herndon, Virginia. April 20.
- 247. "SARS II: Lessons learned from working in Toronto, Canada 2003". Invited to speak by Dr. Larissa May, Department of Emergency Medicine, Director of Course on Emerging Infectious Diseases, George Washington (GW) University Medical Center. Washington, DC. April.
- 248. "Endocarditis: Surgical Indications". Modarres Medical Center. Shahid Beheshiti University of Medical Sciences. Tehran, **Iran**. June 23. Invited by Professor S. Ahmad Hassantash. Dept of Cardiovascular Surgery.
- 249. "Endocarditis: A Clinician's Approach to Diagnosis and Management". Imam Khomeini Hospital Medical Complex. Tehran University. Tehran, **Iran**. June 24. Invited by Dr. Minoo Mohraz, Chairman, Infectious Disease Service, Iranian Research Center for HIV/AIDS.

2011

- 250. "Emerging Infectious Diseases: Global Update". Invited speaker. UAE Surgeon General and US Central Command Conference on Infectious Diseases and Humanitarian Emergency Preparedness. Abu Dhabi, **UAE** Armed Forces Conference Center and Hotel. July 12.
- 251. "Pandemic Preparedness" Tabletop Exercise Facilitator for participants from UAE, Iraq, Saudi Arabia, Lebanon, and Jordan. Abu Dhabi, **UAE**. July 13.
- 252. "Preparedness and Response for Emerging Infectious Diseases". Grand Rounds. Riyadh Armed Forces Hospital. Riyadh, **Kingdom of Saudi Arabia (KSA)**. July 18. Dr. Ali El-Barak, Chief of ID Service.
- 253. Prepositioning antibiotics for anthrax. Discussant focusing on Incubation Period. Conference at the Institute of Medicine (IOM), Washington, DC. Nov 2. (IOM Committee Preliminary Report online Sept 30, 2011/Final report Jan 31, 2012)
- 254. Sverdlovsk 1979 Anthrax Outbreak. Meeting with Dr. Lev Grinberg and Dr. A.A.Faina Abramova in Yekaterinburg. Week of Nov 26. **Russia**. (Translation from Russian to English of three autopsy papers).
- 255. Nipah Virus Outbreaks in Bangladesh. Meeting with Dr. Shovan Sazzad. International Center for Diarrheal Disease Research, **Bangladesh**. Dhaka. Dec 10.

2012

- 256. Organizer & Moderator: Public Forum on 'Controversy and Censorship of Research on Airborne Mutated H5 Flu viruses'. Georgetown. Feb 15.
- 257. Organizer, Moderator, and Speaker: Public Forum on the Inhalational Anthrax Outbreak in 1979 Sverdlovsk (Yekaterinburg, **Russia**). Georgetown University. Drs. Lev Grinberg, Matthew Meselson, Jeanne Guillemin, Martin Hugh-Jones, Joel Ackelsberg. April 2.
- 258. Lecturer: "Nipah Encephalitis-Pneumonia: Evolving Epidemiology 1998-2012". London School of Hygiene and Tropical Medicine (LSHTM). Invited by Dr. David L. Heymann. **UK**. May 10.
- 259. Invited speaker: Mutated H5N1 avian influenza virus and airborne transmissibility. Library of Congress Adams Bldg. Asian Forum Science and Technology. Invited by Dr. Tomoko Steen.
- 260. H5N1 Avian Influenza in Egypt 2006-2012: Briefing with Egyptian Partners. USAID/Cairo, **Egypt**. Nov 29.

2013

261. Infectious disease Outbreaks and Global Travel: What's Next?
Winchester College, Winchester, UK. 12 Feb.
262. Invited lecture: "Egypt and H5N1 avian influenza: Global contributions and Concerns". London School of Hygiene and Tropical Medicine. Keppel Street. London, **UK**. Invited by Dr. David L. Heymann. 14 Feb.
263. Speaker: Anthrax pleural effusions: Russia 1979 and USA 2001: Drainage is necessary for survival. International Meeting on Emerging Diseases/Surveillance (IMED), Vienna, **Austria**. 15-18 Feb
264. Invited speaker. FDA Medical Countermeasures (MCM) "Hot topics" seminar. 'The "Day One" Paradigm for Biopreparedness'. FDA main campus. Silver Spring, MD. March 4. Invited by Dr. Luciana Borio.
265. Invited speaker: Library of Congress Asian Science & Technology Forum 'H5N1 Avian Influenza: Egypt and Indonesia'. Adams Bldg LC. March 7
Invited by Tomoko Steen, Ph.D.
266. Invited speaker: "Egypt: Avian and Pandemic Influenza 2006-2013". Influenza seminar in Department of Biology, Georgetown University. Invited by Professor Shweta Bansal. March 27.
267. Speaker and organizer of Forum on Zoonotic Diseases. Public Lecture: "The Novel Coronavirus in the Middle East: Superspreading Events as a Signal of Emerging Contagious Respiratory Diseases". Georgetown University New Research Building auditorium. April 5th.
268. Invited speaker: "Global Travel and Virus Outbreaks". Center for International and Regional Studies (CIRS). Georgetown University School of Foreign Service Doha, **Qatar**. Dr. Merhan Kamrava. April 22.
269. Interview on MERS by Qatar Tribune (Article published April 23 p.19).
270. "The Novel Coronavirus in the Middle East and the New H7N9 Avian Flu Virus in China: Learning from past Coronavirus and Flu outbreaks". Ain Shams University (ASU), Faculty of Medicine, Cairo, **Egypt**.
Invited by: Dr. Wagida Anwar. April 29.
271. "Pneumonia due to the Novel Coronavirus in the Middle East and the New H7N9 Avian Flu Virus in China: Learning from 2003 & 2009". Chest Hospital, Abbassia, Cairo, **Egypt**. Invited by: Dr. Mohammed Abdel Magid, Director.
272. Invited Grand Rounds speaker: "Lessons from the SARS Coronavirus 2002-2003 Outbreak in Asia and Canada for the Novel Coronavirus 2012-2013 in the Middle East". King Hussein Cancer Center Hospital. Amman, **Jordan**. 4 May. Invited by Dr. Nesreen Faqih, Critical Care.
273. Interview with Al Jazeera Arabic Chief Medical Correspondent, Dr. Osama Abu Elrub. Fundamental Facts about the Novel Coronavirus. (translated into Arabic and posted on www.aljazeera.net). **Qatar** May 13.
274. Invited speaker: "Novel Coronavirus Updates" (Clinical News). Updates". Invited by the Directorate of Communicable Diseases. Dr. Moh'd. Al Abdallat, Director. May 15. Amman, **Jordan**.
275. Invited speaker: "The novel Coronavirus (CoV) causing the Middle East Respiratory Syndrome (MERS): Epidemiology and the initial 44 patients" Weill Cornell Medical College (WCMC) in **Qatar**. Doha Education City campus. May 23. Invited by Laith J. Abu-Raddad, Ph.D.
276. Invited speaker: Update on the Middle East Respiratory Syndrome

- (MERS) April 2012-May 27, 2013. United Arab Emirates (UAE) annual Civil Defence Forum, Abu Dhabi, **UAE**. May 28.
277. Interview on MERS with “Emirates 24/7” news. Majorie van Leijen. Story posted on Emirates 24/7 website **UAE**. 10 June.
 278. Grand Rounds Speaker: ‘MERS: Protecting Hospitals and Planning Treatments’: Lessons from SARS’. Jordan University Hospital. Invited by Dr. Najwa Khuri-Bulos, Chief Pediatric ID. Amman, **Jordan**. May 30.
 279. Invited speaker: MERS Symposium. Actions need to prepare for the Novel Coronavirus causing MERS”. Supreme Council of Health (SCH). Al Majlis Hall, Doha Sheraton. Doha, **Qatar**. Invited by Dr. Mohammed Al-Hajri (SCH). June 3.
 280. Al-Jazeera English (AJE): Live interview on MERS in Doha studio. Arranged by Tarek Bazley. Interview with Nick Clarke. **Qatar**. June 3.
 281. Al-Jazeera Arabic interview with Dr. Osama Abu Elrub. MERS: ‘What we know and what we need to do’. Posted www.aljazeera.net **Qatar**. June 3.
 282. Invited speaker: MERS conference. “Actualities sur l’infection a MERS CoV”. “Three needs for MERS: Increased Collaboration, Hospital Preparedness, and Therapeutic Trials”. Invited by Prof. Catherine LePort and Prof. Christian Raboud (FIDS) SPILF/COREB. UFR de Medicine Paris Diderot--Site Bichat. Paris, **France**. June 6.
 283. Invited speaker: “3 Surge Needs for MERS: Collaboration, Hospital Preparedness, and Therapeutic Trials”. MERS Meeting. UPMC Baltimore, MD. Invited by Dr. Tom Inglesby. June 14.
 284. FDA (CDER) pre-IND Meeting for an antiviral treatment protocol for MERS. White Oak, Silver Spring, MD. June 17.
 285. Participant. MERS Research Planning symposium. National Institutes of Health (NIH). Natcher Bldg.NIH. Bethesda, Maryland. June 24.
 286. MERS Pathogenesis Hypothesis (linking diabetes and the DPP4 receptor for the MERS coronavirus. ProMED Mail. June 24. (item 5 of 6)
 287. “MERS: What have learned the first 15 months from inside and outside the Middle East? ”. New York City Department of Health and Mental Hygiene. Invited by Dr. Joel Ackelsburg. June 27
 288. “MERS: Case Management”. Invited lecture at the Jordan Ministry of Health & WHO Jordan National Meeting for Health Care personnel. July 7. Amman, **Jordan**. Invited by Dr. Mohammad Mousa Al-Abdallat.
 289. Grand Rounds. “Update on Middle East Respiratory Syndrome”. Pamela Younde Nethersole Eastern Hospital. Invited by Dr. Alan Wu. Department of Microbiology. **Hong Kong**. August 16.
 290. Invited speaker. “Middle East Respiratory Syndrome 2013 Update”. National Institute of Genetics. Mishima, **Japan**. Invited by Dr. Hiroshi Akahi. August 21.
 291. “MERS Update”: Supreme Council of Health (SCH), Doha, **Qatar**. Invited by Dr. Ayman Diab and Dr. Mohammed Al-Hajri. Sept 8.
 292. Outpatient Evaluation of MERS-CoV: Primary Health Care Center (PHCC). Barwa. Invited by Dr. Juliet Ibrahim. Doha, **Qatar**. Sept 9.
 293. Grand Rounds Speaker: “MERS: The Initial 18 Months since the Zarqa Hospital Outbreak.” Hamad General Hospital and Medical Corporation. Hajar Auditorium. Invited by Dr. Abdullatif al-Khal, Chief Infectious Diseases. Doha, **Qatar** Sept 11.
 294. Visiting Professor. Grand Rounds: “MERS Update and Preparedness”. Aspetar Hospital. Invited by Dr. Khalifa (CEO), Doha, **Qatar**. Sept 12

295. Visiting Professor. Grand Rounds: "MERS Updates". Sulaminaya Hospital. Manama, **Bahrain**. Invited by Dr. Jameela Al Salman and Dr. Mariam al-Hajeri (MOH Public Health Directorate). Sept. 19.
 296. Organizer and Moderator: 1st Symposium on "Perspective on Wisdom: Invitation to a Dialogue". Dartmouth College. Hanover, NH. Sept 28.
 297. Invited speaker: Update on MERS Epidemiology after the Hajj 2013. Washington DC Department of Health. Invited by Dr. John Davies-Cole, Director, Epidemiology Bureau. October 24.
 298. Invited panel speaker on MERS: Eastern Mediterranean Public Health Network (EMPHNET) Conference. Marrakech, **Morocco**. December 5. Invited by Dr. Mohannad al-Nsour, Executive Director, EMPHNET.
- 2014**
299. Organizer and Moderator for Panels on MERS, and on Polio-in-Syria. Georgetown University School of Foreign Service (SFS), ICC auditorium Collaboration: Medical Center, SFS, Law Center, & President's Office. Keynote speaker: Dr. Anthony Fauci, NIAID, NIH. 19 February.
 300. Invited Lecturer. "Global Health Insecurity: MERS & H7N9 Influenza". Georgetown University Law School Center. Invited by: Susan Kim and Lawrence Gosten. March 20.
 301. Organizer and Moderator for Symposium on new US Global Health Security Agenda and new Influenza Viruses in China (H7N8, H10N8) and Korea (H5N8). Collaboration with School of Foreign Service (SFS) Asia Studies Program (Prof. Victor Cha). ICC auditorium. April 9.
 302. Invited talk: "Learning from MERS: Lessons for the World from MENA" Doha, Qatar NIH-Qatar Foundation-Cornell workshop on endemic and emerging viruses. May 26-29, 2014. Four Seasons hotel, Doha, **Qatar**. Invited by NIH (NIAID).
 303. Invited panel speaker on Ebola in Sierra Leone. September 3. Georgetown University Law Center O'Neill Institute on Global Health Law. (On CSPAN).
 304. Organizer and opening speaker. Symposium on Ebola Epidemic. Georgetown University School of Foreign Service (SFS). Sept 23. (On CSPAN, CNN).
 305. Group Leader: Discussion on Ebola Clinical Management in Children and during Pregnancy. Liberian Ministry of Health. Monrovia, **Liberia**. Dr. Moses Massaquoi, Inviter/Organizer. 11 Nov
 306. 'Ebola at the MSF "ELWA-3" Hospital in Monrovia Aug 3-Nov 14'. Doctors Without Borders ("MSF" Medecines Sans Frontieres) Board of Advisors. Dec 4. Invited by Dr. John Lawrence.
 307. Panel discussion on Ebola MSF Response in Liberia. . MSF-USA Board of Directors Meeting. New York City. Dec 5.
 308. Speaker. Memorial Service for Dr. Martin Salia, Sierra Leone Surgeon who died of Ebola in Nebraska after being air-evac from Freetown. Dec 8. Drs. Cole and Federoff, Inviter.
 309. 'The Ebola Epidemic in West Africa'. Indianapolis Emergency Medical Services, Indianapolis, Indiana. December 15. Invited by Tim Stephens.
 310. 'Ebola Clinical Management': Eskenazi Hospital and St. Vincent's Hospital. Indianapolis, Indiana. Dec 16.
 311. 'Ebola: A View from the Ground in Sierra Leone and Liberia Aug-Nov.' Riley Hospital, Indianapolis, Indiana. Dec 16.
 312. 'Ebola: A US Clinician's View from the Ground in Sierra Leone and Liberia'

St. Francis Hospital, Indianapolis, Indiana. Dec 16. Justin Mast, RN Inviter.

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313. Insights from Working in Sierra Leone and Liberia on the Ebola Epidemic. Blue Ribbon Study Panel on Biodefense. Chairs: Senators Joseph Lieberman & Tom Daschle and Gov. Tom Ridge. Hudson Institute. Jan 14th. Dr. Robert Kadlek, Inviter.
314. Ebola: Lessons Learned. CBW Symposium. James Martin Center for Nonproliferation Studies. Wash DC. Jan 14. Seth Carus, Inviter.
315. Speaker as representative for MSF at the Breakfast for US Ebola Health Care Responders in West Africa. Paul G. Allen Foundation. Capitol Visitors Center. Wash. DC Jan 20. Dune Ives, PGA Foundation, Inviter via MSF.
316. Speaker on Ebola. Gershwin Performance and MSF donations. The Church of the Annunciation. 3810 Mass. Ave NW. Wash. DC. Frank Conlon, Inviter via MSF-USA (NYC: Mr. Charlie Kunzer).
317. Presentation on Ebola in West Africa at Georgetown Law Center O'Neill Institute for Global Health Law. Jan 22. Inviter, Susan Kim, JD.
318. Discussion on Smithsonian Institution National Museum of Natural History (NMNH) and Georgetown University Exhibit on Global Outbreaks of Emerging Viruses, and kick-off symposium (March 25). Junko Chienen, Inviter at NMNH. Feb 2nd.
319. Ebola: A View from the Ground in Sierra Leone and Liberia 2014. Medstar MAMMS monthly meeting. Wash., DC. Feb 3. Inviter Dr. Mark Smith.
320. Ebola Panel participant (with Ron Klain, Esq.). 1776. Wash DC. Feb 11. Dr. Mark Smith, Inviter.
321. Fighting Ebola in Liberia and Sierra Leone. The DC One Health Academy. Feb 12. Tom McGinn, Will Sander, Inviter.
322. Ebola: A View from the Ground 2014. DHS Science and Technology Directorate. Feb 13. David Shepherd, Inviter.
323. Ebola: Lessons from West Africa 2014. Emergency Medicine annual Preparedness Practicum. Minneapolis. Minn. Feb 25. Dr. John Hick, Inviter.
325. Ebola and Beyond: Global Outbreaks in our One Health World. Organizer (12 speakers). Georgetown Leavey Conference Center. March 25.
326. Workshop with scientists and curators from the Smithsonian National Museum of Natural History on Global Outbreaks Exhibition kick-off meeting. March 25. Kara Blond and Sally Love, co-organizers.
327. The Ebola Epidemic in Sierra Leone and Liberia: A View from the Ground. DC Department of Health Office of Epidemiology. March 31. Dr. John Davies-Cole, Epi Director, Inviter. Discussion with Dr. Nesbitt, Director DOH
328. "Q'rius Expert is in" discussion leader at the Smithsonian National Museum of Natural History 2-4pm April 1st. Jasmine Utrey, inviter.
329. White House Ebola Innovation Conference April 2nd. Dr. May Chu, Inviter.
330. "Ebola: The Joy of Helping Patients Survive in Monrovia, Liberia 2014". Columbia University Mailman School of Public Health. NY City. April 3. Dr. Stephen Morse, Inviter.
331. "Working in Ebola Units in Sierra Leone and Liberia". Library of Congress Madison Bldg. Pickford auditorium. April 7. Dr. Tomoko Steen, Inviter.
332. "Working as an Ebola Doctor-Within-Borders in West Africa to Improve Survival". The Sarah Stewart Seminar Series. Georgetown University Medical School students. April 9. Dean Dr. Stephen Ray Mitchell, inviter.
333. Ebola Panel: "Lessons Learned". Ebola Innovation Summit. Paul G. Allen

- Foundation with Skoll Foundation and USAID co-sponsors. San Francisco, April 21. Gabrielle Fitzgerald, Inviter.
334. "MERS: Middle East Respiratory Syndrome". Smithsonian National Museum of Natural History (NMNH) Q'rius Program for the General Public May 4. Jasmine Utley (NMNH), Inviter.
 335. Grand Rounds speaker. Abbasia Fever Hospital (AFH) Cairo, **Egypt**. "Ebola: The Agony and Joy of helping patients in West Africa 2014. May 12. Inviter: Director of AFH Dr. Amany El-Emam.
 336. Department of Emergency Medicine, Georgetown University Hospital and Washington Hospital Center. "Lessons from 33 Years of emerging Infectious Diseases AIDS 1982 San Francisco to Ebola in West Africa. Georgetown University Medical Center Med-Dent bldg. 201 NE Inviter Dr. Autumn Graham. May 21.
 337. Speaker: "Ebola IS a Doctor's Disease". The annual General Assembly meeting of the US MSF (Doctors Without Borders). NYC. Inviter: John Lawrence, MD (MSF Board). June 19.
 338. Invited Speaker: Helping patients Survive Ebola in Liberia. 1st Asia-Pacific Parliamentarian Forum on global Health. Conrad hotel. Seoul, **Republic of Korea**. . Invited by Dr. Jong-Koo Lee. Director, JW Lee Center for Global Medicine. Seoul. July 2.
 339. Invited speaker. 'Ebola Clinical Management'. Medical Conference. Seoul **Korea**, National University (SNU) Hospital. Inviter Dr. Myoung-Don Oh, ID Chief. July 9.
 340. Invited speaker. 'Ebola in West Africa'. JW Lee Center for Global Medicine. Seoul, **Korea**. Invited by Dr. Juhwan Oh. July 13.
 341. Invited speaker. 'Lessons from 33 years form AIDS to Ebola 1982-2015'. JW Lee Center for Global Medicine. Seoul, **Korea**. Invited by Dr. Juhwan Oh. July 15.
 342. Invited Speaker. 'The Global Health Security Agenda (GHSA): Now and in Seoul Sept 2015'. JW Lee Center for Global Medicine. Seoul, **Korea**. Invited by Dr JK Lee. July 17.
 343. Invited speaker: The MERS Outbreak in Korea. Meeting of the Global Health Security Agenda NGO conference. George Washington University. Inviter: Ambassador Bonnie Jenkins. July 23

Committee Service

1. American Society of Tropical Medicine and Hygiene (ASTMH) Clinical Certification Examination Writing Committee: 1997-2001.
2. Institutional Review Board (IRB) member, Uniformed Services University of the Health Sciences (USUHS) 1998-2000). Bethesda, Maryland.
3. Animal Use Committee, Washington Hospital Center, Dec 1998-Dec 2001.
4. Graduate Medical Education (GME), Washington Hospital Center 1999-2002.
5. Medstar Research Grant Committee: 1999, 2000, 2001.
6. Washington Hospital Center Influenza Committee (Chair): 1999-2002.
7. West Nile Virus Committee Chair, Washington Hospital Center: 2000-2002.
8. HIV Vaccine FDA Committees (3) FDA Presenter (HIV Vaccines (2), and Lyme Vaccine): 1997-1998.
9. National Institutes of Health (NIH) Infectious Disease Fellowship Steering Committee: 1997-98. Bethesda, MD (Dr. Jack Bennett, Chair).
10. Co-Chair, Infectious Disease/Infection Control.

- District of Columbia Hospital Association (DCHA) 2001-2004
11. Chair, Biologics Task Force. "EROne Project". Washington Hosp Ctr 2001-03
 12. Consultant to the Washington, DC Department of Health: Bioterrorism, vaccinia, plague, SARS, avian influenza. July, 2002-2004.
 13. DC/National Capitol Region (NCR) "Surge" Emergency preparedness committee: appointed by Deputy Mayor (Margaret Kellems) for Public Safety. Feb 2004-2005.
 14. Bioterrorism Task Force. Metropolitan Washington Council of Governments (MWCOG). Chair, Robert Malson, esq. 2002-2004.
 15. Interagency Task Force on Lead-in-the-Drinking Water. Councilmember Carol Schwartz and City Administrator/Deputy Mayor Robert Bobb. Feb 2004-June 2004. Washington DC. (Wilson Building).
 16. Scientific Committee member. International Meeting on Emerging Diseases and Surveillance (IMED 2007). Vienna, Austria February 23-26, 2007.
 17. Scientific Committee Member. International Meeting on Emerging Diseases and Surveillance (IMED 2009). Vienna, Austria February 2009.
 18. Scientific Committee Member. International Meeting on Emerging Diseases and Surveillance (IMED 2011). Vienna, Austria February 4-7, 2011.
 19. Scientific Committee Member. International Meeting on Emerging Diseases and Surveillance (IMED 2013). Vienna, Austria February 15-18, 2013.
 20. Scientific Committee Member. International Meeting on Emerging Diseases and Surveillance (IMED 2013). Vienna, Austria Oct 31-Nov 3, 2014.
 21. Team Leader: USAID Performance Evaluation Review Team (in Cairo Oct 29-Dec 6, 2012) for H5N1 avian influenza work in Egypt 2007-2011.
 22. Ph.D. Dissertation Committee. Georgetown University Department of Microbiology and Immunology. Global Infectious Diseases. Christine Hercik. Candidate 2015-2016.
 23. Content Curator, Smithsonian National Museum of Natural History: Core Committee planning for 2017-2019 Exhibit on Global Infectious Disease Outbreaks (March 25, 2015---
 24. NGO Core Committee (Tier 1) for the Global Health Security Agenda (GHSA). Representative for Georgetown University. (April 7, 2015---
 25. One Health Commission. Representative for Georgetown University Medical School/Center (June, 2015---). Georgetown is the only US medical school represented on the Board.

Georgetown University Medical Center Teaching 2001-2015:

1. **"Emerging Infectious Diseases: Past as Prologue" (MICB-524)**
 Role: Course Instructor and organizer
 Number of direct contact hours: 45 classroom hours.
 11 Years: 2005-2015..
 Number of students: 20-30 each spring semester then 47 students in 2015
2. **"Biodefense Public Health Countermeasures" (MICB-523)**
 Role: Course Instructor and organizer
 Number of direct contact hours: 30-45 classroom hours.
 Years taught: Fall semester 2004, 2005, 2006, 2007, 2008.
3. **"Infectious Diseases and Global Health Security (GLOH-524)** Department of International Global Health (new) M.S. program 2014

45 classroom hours (Jan-May). One year taught.

4. **Invited lecturer to 2nd year Georgetown medical students** (classroom).
Viral Hepatitis and Aseptic meningitis topics. January 2001 and Jan 2002.
5. **Infectious Disease Outbreak Epidemiology MICB-592**. Jan-May 2015.
6. **Epidemiology for Lawyers (Law School)**. Winter 2015.
7. **Virus Outbreaks in East Asia 2003-2015**. (INAF-424). **School of Foreign Service (SFS)**. Jan-May 2015.
Role: course organizer.
Number of direct contact hours: 45
8. **Ebola/MERS: Global Responses**. (STIA 381). Sept 3-Dec 3, 2015.
School of Foreign Service.
Role: course Organizer.
Number of direct classroom hours: 45

Clinical Tutor for 2nd year Medical Students: History and Physical Exam

- A. Harvard Medical School, Boston, Massachusetts: 1986
- B. Uniformed Services University of the Health Sciences (USUHS):
National Naval Medical Center: 1992, 1993, 1994, 1996
Washington Hospital Center, Washington, DC in 2002.

Bibliography

1. **Lucey DR**, Hauri P, Snyder ML. The wakeful "type A" student. Intl J Psych Med 1981;10:333-337.
2. Crumpacker C, Bublely G, **Lucey DR**, Hussey S. Ribavirin enters cerebrospinal fluid. Lancet 1986;ii:45-46.
3. Crumpacker C, Wyrda H, Bublely G, Monroe J, Finberg R, Hussey S, Schnipper L, **Lucey DR**, Lee T-H, McLane MF, Mulder C, Essex M. Ribavirin treatment of AIDS and ARC – A phase I study shows transient clinical improvement associated with suppression of HIV and enhanced lymphocyte proliferation. Ann Int Med 1987;107:664-675.
4. McCrone E, **Lucey DR**, Weller PF. Fluorescent staining of leukocyte chemotaxis: eosinophil-specific fluorescence with aniline blue. J Immunol Methods 1988;114:79-88.
5. **Lucey DR**, Maguire J. Transmission of HIV-1 and the prevention of AIDS. Brigham & Women's Hospital Medical Update. 1988;1:1-4.

6. **Lucey DR**, Nicholson-Weller A, Weller PF. Human eosinophils have the capacity to express HLA-DR. *Proc Natl Acad Sci* 1989;169:1348-135.
7. **Lucey DR**, Dorsky D, Nicholson-Weller A, Weller PF. Human eosinophils express CD4 and bind HIV-1 gp120. *J Exp Med* 1989;169:327-332.
8. Clerici M, Stocks N, Zajac R, **Lucey DR**, Boswell R, Via C, Berzofsky J, Shearer GM. Detection of three distinct patterns of T-helper function in asymptomatic, HIV-seropositive patients: Independence of CD4 cell number and clinical staging. *J Clin Invest* 1989;84:1892-1899.
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serum neopterin concentration in patients with HIV-1 infection. *AIDS* 1991;5:209-212.

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58. Tarr P, Sneller MC, Mechanic LJ, Economides A, Eger C, Strober W, Cunningham-Rundles C, **Lucey DR**. Infections in patients with thymomas and immunodeficiency (Good Syndrome): report of five cases and review of the Literature. *Medicine* 2001; 80:123-133.
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Book Chapters

1. Dermody T, **Lucey DR**. Pulmonary Infection in the Immunocompromised Host. Aronson M, Deblacco R (eds). Manual of Clinical Evaluation. Little, Brown and Company, Boston, MA. 1989.
2. **Lucey DR**, Clerici M, Eisenstein E. Fleisher TA, Shearer GM. Assessment of lymphocyte and monocyte function. Clinical Immunology Principles and Practice. Rich, RR (Editor). Mosby, Inc. 1995;142:2124-2141.
3. **Lucey DR**, Chanock S. The human immunodeficiency virus and the acquired immune deficiency syndrome (AIDS). In: Cardiovascular Manifestations of HIV. Lipshultz SE. (Editor). 1998: 3-32.
4. Artenstein A. **Lucey DR**. Plague. In Occupational Medicine. Coutrier, AJ. (Editor). OEM Press, Beverly Farms, MA. 2000: p.329-337.
5. Tarr P, **Lucey DR**. Chemokines: A Review. Cytokine Therapeutics in Infectious Diseases. Holland S. (Editor). Lippincott Williams & Wilkens. 2001;145-185.
6. Kogulan P, **Lucey DR**. Schistosomiasis. In E-Medicine (online) Textbook of Medicine and Surgery. 2001.
7. Kiminyo K, **Lucey DR**. African Trypanosomiasis. In E-Medicine (online). Textbook of Medicine and Surgery. 2001.
8. **Lucey DR**, Kogulan P. Eosinophilia. In E-Medicine (online). Textbook of Medicine and Surgery. 2001.
9. Doan N, **Lucey DR**. Coxsackieviruses. In E-Medicine (online). Textbook of Medicine and Surgery. 2001.
10. Cupples S, **Lucey DR**. Infectious Diseases in Transplant Recipients. In, *Solid Organ Transplantation---A Handbook for Primary Care Providers*. Springer (publisher). 2002.
11. **Lucey DR**. "Anthrax" in the new Bioterrorism section of Principles and Practice of Infectious Disease. (published Oct 22, 2004.) Editors: Mandell, Bennett, Dolin. 6th Edition. Chapter 324. p. 3618-24.
12. **Lucey DR**. "*Bacillus Anthracis*" (Anthrax). Principles and Practice of Infectious Disease. (published Oct 22, 2004). Editors: Mandell, Bennett, Dolin. 6th Edition. Chapter 205: p. 2485-91.
13. Albertus M, **Lucey DR**, Breman J. "Smallpox" (Bioterrorism Section). In, Hospital Epidemiology and Infection Control (3rd Edition). C. Glen Mayhall. 3rd Edition. 2004: pages 1966-1976.
14. **Lucey DR**. Anthrax. (invited (by Dr Julie Gerberding, CDC Director). 23rd edition (2007) of Cecil's Textbook of Medicine. Chapter 317. p. 2197-2200.

15. **Lucey DR**, Breman J, Henderson DA. "Smallpox and Bioterrorism". *In*, Weaponization of Infectious Diseases. Lutwick L. and Lutwick S. (Eds). Published 21 October, 2008. Springer/Humana Press. NYC, NY.
16. **Lucey DR**. Anthrax. Chapter in Cecil's Textbook of Medicine. 24th edition. 2011. Elsevier Publishers, Inc.
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Abstracts: Selected from > 100

1. **Lucey DR**, Dorsky D, Nicholson-Weller A, Weller PF. "Human Eosinophils can express CD4 and HLA-DR and Bind HIV GP120". American Society Tropical Medicine and Hygiene (ASTMH). Washington, D.C. (First author received the ASTMH Young Investigator **award 1988**).
2. **Lucey DR**, Bethke D, Rusnak J, Melcher G, Shearer G. Comparison of IL-15 and IL-2 in HIV production from peripheral blood mononuclear cells. American Federation for Clinical Research (AFCR). San Diego, CA., 1995. (First author received the AFCR Henry Christian **award** for this research).
3. Dekeraty D, Means-Markwell M, O'Neil KM, Mascola JR, Fleisher T, **Lucey DR**. Hypereosinophilia associated with a novel T-cell population and increased serum levels of interleukin-15. Navy American College of Physicians (ACP) Annual Meeting. Nov 1997. (1st place **award** for Dr. Dekeraty for case report presentations at the Navy ACP meeting).
4. Kogulan P, Smith M, Seidman B, Schmookler B, Tsokos M, Chang G, **Lucey DR**. Malacoplakia: a rare cause of purulent skin nodules, a pelvic mass, and bladder perforation. ACP Associates meeting. May 8, 1999. USUHS, Bethesda, MD. (Dr. Kogulan received an **award** for this poster presentation.)
5. Magcalas E, Smith M, **Lucey D**. Tuberculous osteitis of the skull. American College of Physicians (ACP) Associates meeting. May 8, 1999. USUHS, Bethesda, MD. (Dr. Magcalas received an **award** for this poster).
6. Alexander MA, Strong M, He P, Nam L, Marik P, **Lucey DR**. Exchange transfusion in the therapy of severe malaria. Regional ACP meeting. USUHS. Jan. 2000. (Dr. Mark Strong won an **award** for his presentation).
7. Wilck M, Verghese M, Krishnan J, **Lucey D**. Two cases of *Schistosoma haematobium* illustrating the wide spectrum of disease: Curable cystitis to carcinoma. ACP meeting. Bethesda, MD. May 12,2001. (Dr. Wilck won an ACP **award** for her poster presentation).
8. Blair R, Donegan N. Lucey DR. Hospital Infection Control Response to the threat of a new epidemic: West Nile Virus. Association for Professionals in Infection Control and Epidemiology annual meeting. Seattle, WA. June 10-14, 2001. (Ms. Blair received an **award** for this poster presentation on West Nile

Virus surveillance system).

9. Kiminyo K, **Lucey D**. Prevalence of Tuberculin Skin Test Reactivity in HIV Uninfected Sowetan Adults in South Africa. Medstar Research Institute Research Day. May 7, 2002. Washington Hospital Center. Wash DC. (Dr. Kiminyo won an **award** for this poster).
10. Shafer R, Hoover S, Fischer S, **Lucey D**. A novel gram negative rod causing aortic valve perforation and ring abscess. American College of Physicians (ACP) Associates annual meeting. Walter Reed Army Medical Center, Wash DC. May 11, 2002. (Dr. Shafer won an **award** for this poster).
11. **Lucey DR**, Perl T, Dembry L, Karchmer T, Price C, Woeltje K, Patterson J. SARS lessons for the USA from IDSA Physicians who worked in Toronto. Late-breaker abstract. 41st Infectious Disease Society of America (IDSA) conference. San Diego, CA. Oct 11th, 2003.
13. **Lucey DR**, Varco J. An educational color poster and tool for key facts for Category A Biothreats. International Meeting on Emerging Diseases and Surveillance (IMED). Vienna, Austria Feb 15-18, 2013.
14. **Lucey DR**. Learning from MERS: Lessons for the World from MENA (Invited given in Doha, Qatar NIH-Qatar Foundation-Cornell workshop on endemic and emerging viruses on May 28, 2014).

Blog 2002-2010: www.bepast.org

- 80 “Washington Newsletters” posted online at www.BePast.org regarding H5N1 avian and pandemic influenza from January 2004 – 2010. Over 150 additional newsletters on infectious diseases, and biodefense issues, posted on this website from 2002-2010.

Media Interviews 1999-2015 including:

CNN. Lehrer NewsHour, CBS Evening National News, NBC, Fox 5 Washington DC Local News, ABC DC Local News, Canadian Broadcasting Network, Voice of America, Washington Post, NY Times, Reuters, others.

MERS Interviews while in the Middle East 2013:

Qatar Tribune (April 23. p19), Al Jazeera Arabic (two articles in Arabic on www.aljazeera.net by Chief Medical Correspondent Dr. Osama), Al Jazeera English live interview June 3 and Al Jazeera (English) YouTube excerpt on MERS by Tarek Bezley June 3. Emirates 24/7 News (Abu Dhabi, UAE), Georgetown University News (two MERS articles posted by GU in 2013).

MERS interviews while in USA April-May 2014:

Al-Jazeera (Live via Doha), Agence France Presse (AFP), ABC World News (TV), WUSA channel 9 live TV (DC), MedPage, ABC radio (NYC, DC, other cities), NPR radio, CBS radio news (DC, Chicago, LA, others). CNN (May 15-16).

EBOLA interviews (> 40) e.g., :

July 29-August 1, 2014.

Washington DC WAMU NPR Diane Rehm show, Hearst TV, Al-Jazeera America
Sept 3-27, 2014: CSPAN (Sept 3 Law Center Ebola colloquium), AP TV x 2: ABC, Fox, CNN (Sept 17 and Sept 26) , BBC World News TV, USA Today x 3, BBC radio, Washington Post (Sept 16), the GU Hoya newspaper, NY Times article Sept 20, Al-Jazeera (USA).

October 3-Nov 12: Interviews at the MSF hospital “ELWA-3” in Monrovia, Liberia including BBC, CNN, CBS News, National Public Radio, NY Times, Bloomberg News, Danish TV and newspaper, others.

Dec 2nd: BBC TV (USA Live in Wash DC).

Jan 5, 2015. USA Today online profile and Ebola story (by Ms. Liz Szabo).

March 23, 2015: CNN with international anchor Isha Sesay. Ebola Epidemic in West Africa at One Year’.

July 31, 2015: WTOP radio. The Ebola Vaccine (Lancet paper release).

Aug 1, 2015: Canadian TV (CTV): The Ebola Vaccine: A “Game Changer”?

MERS Interviews May-July 2015 (Korea outbreak):

May 27: Busan Live Morning Radio (Aimee Oh)

May 29: NBC News online. (Maggie Fox).

June 1: Seoul “This morning” live Radio (Kyungmi Choi)

June 2: USA today (Liz Szabo)

June 3-14: Multiple (>7) with Korean media

June 16: Seoul Broadcasting System (SBS). TV (Mr Felix Kwon (NYC office)

July 29: Busan Live Morning Radio (Aimee Oh): MERS declared ‘de facto over’.

Overseas Work and Travel (~ 110 trips)

2015: Seoul, Korea. Global Health Security Agenda (GHSA) annual Ministerial meeting. Representing Georgetown University on GHSA NGO/NGS Steering committee Ambassador Bonnie Jenkins, Chair. Meetings with Dr. Myoung-Don Oh, Seoul National University Hospital and Dr. Jong-Koo Lee, Director, JW Lee Center for Global Medicine. Topic: MERS outbreak and aftermath. Sept 2-9.

2015: Seoul, Korea (MERS). June 30-July 18. Invited by Dr. Jong-koo Lee. Director, JW Lee Center for Global Medicine. and Seoul National University (SNU). MERS Rounds at Seoul National University Hospital and National Medical Center with Dr. Myoung-Don Oh. Visit to Korean NIH in Osan with Dr. Jee, Director of the Center for Immunology and Pathology.

2015: Conakry and Dubreca, Guinea (Ebola outbreak sites).

2015: Cairo, Egypt. Meetings with the Ministry of Health and Population, Dr. Samir Rifaey (H5N1 avian flu), Abbasia Fever Hospital (Dr. Amany El-Amam) and NAMRU-3 CO Dr. John Gilstad.

2015: Monrovia, Liberia. Returned to meet Liberian health worker colleagues and Ebola Survivors from 2014. Visit to school for Ebola orphans and children affected by Ebola epidemic (“Confidence Humanitarian, Inc”. NGO. CEO Jackson Naimah). Returned to ELWA-3 ETU for March 11 “Decoration Day”.

2014: Monrovia, Liberia. Work as a medical doctor at the MSF-OCB Ebola hospital. Confirmed tents C1-4 at “ELWA-3”. Oct 3-Nov 9. Nov 10-14 seconded to Liberian Ministry of Health to work with MOH Chief Medical Officer, Dr. Bernice Dahn, on Ebola protocols.

2014: Brussels and Ypres, Belgium Nov 15-Dec 1. In lieu of US Ebola quarantine.

- 2014: Freetown, Sierra Leone. Connaught Hospital volunteer in the Ebola Testing and Isolation Unit. (Dr. Marta Lado and Dr Oliver Johnson). Training nurses & doctors on Ebola-PPE for Ministry of Health. Aug 10-31.
- 2014: Invited by NIH to speak on MERS at a NIH-Qatar Foundation-Cornell workshop May 26-29 in Doha, Qatar.
- 2013: Invited panel speaker on MERS: Eastern Mediterranean Public Health Network (EMPHNET) Conference. Marrakech, Morocco. December 5. Invited by Dr. Mohannad al-Nsour, Executive Director, EMPHNET.
- 2013: Meeting on polio and polio vaccination with Jordan Ministry of Health (MOH) Dr. Moh'd. Al-Abdallat, Communicable Diseases Director, Amman and Dr. Iman Bambouk, WHO physician in Za'atara Syrian refugee camp near Mafraq, Jordan. November. Visit to Za'atara camp with Dr. Bambouk officially authorized and arranged by Dr. Moh'd. Abdallat.
- 2013: Hospital Grand Rounds and meeting with Ministry of Health on MERS. Manama, Bahrain. Dr. Jameela al-Salman. Sept 19-23.
- 2013: Discussion on MERS Updates and Outbreaks (in Qatar). SCH, PHCC, Hamad General Hospital-HMC, and Aspetar Hospital. Doha, Qatar. Aug 26-Sept 18. Dr. Ayman Diab, Dr. Mohammad al-Hajri, Dr. Khalifa, Dr. Muna Al-Maslamani, Dr. Abdullatif Al-Khal, Dr. Juliet Ibrahim & colleagues.
2013. Discussion on MERS Co-V and H7N9 avian influenza at Qatar Supreme Council of Health. Doha, Qatar. Dr. Hamad Eid Al-Romaihi and six colleagues. August 25.
- 2013: Invited speaker. "Middle East Respiratory Syndrome 2013 Update". National Institute of Genetics. Mishima, Japan. Invited by Dr. Hiroshi Akahi. August 21.
- 2013: Grand Rounds speaker: MERS Update. Hong Kong Pamela Younde Nethersole Eastern hospital. Invited by Dr. Alan Wu. August 16.
- 2013: Discussion on MERS at Qatar Supreme Council of Health Dr. Hamad Eid Al-Romaihi, and Dr. Elmoubasher Abu Baker Abd Faraq. Doha, Qatar. 31 July.
- 2013: Discussion on Middle East Respiratory Syndrome (MERS) with Hamad General Hospital Corporation Dr. Muna A. Rahman S.Al-Maslamani and Dr. Said H S Al Dhary. Doha, Qatar. 31 July.
- 2013: MERS Coronavirus discussion with Bahrain MOH and ID Physician Dr. Jameela Al-Salman. Manama, Bahrain. 29 July.
- 2013: ID in United Arab Emirates (UAE) MOH Dr. Yousif Mohammed Al-Serkal, Asst. Undersecretary for Hospitals sector. Dubai, UAE. 25 July
- 2013: Response to MERS patients. Health Authority Abu Dhabi (HAAD). Dr. Farida al-Hosani. Abu Dhabi, UAE. 18 July.
- 2013: Clinical Management of MERS. Dr. Adeel Butt. Chairman of Medicine. Sheikh Khalifa Medical City (SKMC). Abu Dhabi, UAE. 17 July.
- 2013: Response to MERS patients. Health Authority Abu Dhabi (HAAD). Dr. Farida al-Hosani. Abu Dhabi, UAE. 16 July.
- 2013: Clinical Management of MERS. Dr. Adeel Butt. Chairman of Medicine. Sheikh Khalifa Medical City (SKMC). Abu Dhabi, UAE. 14 July.
- 2013: Clinical Treatment protocol for MERS. Dr. Benoit Guery and Dr. Catherine Lepout. Paris, France. 11 July.
- 2013: Participant. Health Protection England (PHE) Coronavirus conference. London, UK. July 9.
- 2013: "MERS: Case Management". Invited lecture at the Jordan Ministry of Health & WHO Jordan National Meeting for Health Care personnel.

- July 7. Amman, Jordan. Invited by Dr. Mohammad Mousa Al-Abdallat.
- 2013: Invited speaker: MERS conference. "Actualities sur l'infection a MERS CoV". "Three needs for MERS: Increased Collaboration, Hospital Preparedness, and Therapeutic Trials". Invited by Prof. Catherine LePort and Prof. Christian Raboud (FIDS) SPILF/COREB. UFR de Medicine Paris Diderot--Site Bichat. Paris, France. June 6.
- 2013: Keynote speaker: MERS: What do we know and what needs to be done?" Qatar Supreme Council of Health (SCH). Invited by Dr. Mohammad Al-Hajri (SCH). June 3.
- 2013: Grand Rounds speaker: MERS. Jordan University Hospital. Amman, Jordan. May 30. Invited by Dr. Najwa Khuri-Bulos.
- 2013: Invited speaker on MERS: May 28 UAE Civil Defense annual safety meeting, Yas Viceroy Hotel, Abu Dhabi UAE.
- 2013: Invited speaker: "The novel Coronavirus (CoV) causing the Middle East Respiratory Syndrome (MERS): Epidemiology & the initial 44 patients" Weill Cornell Medical College (WCMC) in Qatar. Doha Education City May 23. Invited by Laith J. Abu-Raddad, Ph.D.
- 2013: Invited Grand Rounds speaker: "Lessons from the SARS Coronavirus 2002-2003 Outbreak in Asia and Canada for the Novel Coronavirus 2012-2013 in the Middle East". King Hussein Cancer Center Hospital. Amman, Jordan. 4 May. Invited by Dr. Nesreen Faqih, Critical Care.
- 2013: "Pneumonia due to the Novel Coronavirus in the Middle East and the New H7N9 Avian Flu Virus in China: Learning from 2003 & 2009". Chest Hospital, Abbassia, Cairo, Egypt. Invited by: Dr. Mohammed Abdel Magid, Director.
- 2013: "The Novel Coronavirus in the Middle East & the New H7N9 Avian Flu Virus in China: Learning from past Coronavirus and Flu outbreaks". Ain Shams University (ASU), Faculty of Medicine, Cairo, Egypt. Invited by: Dr. Wagida Anwar. April 29.
- 2013: Speaker: "Global Plane Travel and Virus Outbreaks". Georgetown University School of Foreign Service (SFS), Center for International and Regional Studies (CIRS), Doha, Qatar. 22 April.
- 2013: Speaker: Anthrax pleural effusions: Russia 1979 and USA 2001: Drainage is necessary for survival. International Meeting on Emerging Diseases/Surveillance (IMED), Vienna, Austria. 15-18 Feb
- 2013: Organizing committee member, and Chair of session on Bats and Nipah virus Malaysia, Thailand and Bangladesh. IMED 2013, Vienna
- 2013: Invited lecture: Egypt and H5N1 avian influenza: Global contributions and Concerns". London School of Hygiene and Tropical Medicine. Keppel Street. London, UK. Invited by Dr. David L. Heymann.
- 2013: Infectious disease Outbreaks and Global Travel: What's Next? Winchester College, Winchester, UK. 12 Feb.
- 2012: Team Leader USAID/GHTech H5N1 avian flu in Egypt Oct 29-Dec 6. Dr. Wagida Anwar, MD. Ain Shams University Medical School.
- 2012: Lecturer: "Nipah Encephalitis-Pneumonia: Evolving Epidemiology 1998-2012". London School of Hygiene and Tropical Medicine (LSHTM). Invited by Dr. David L. Heymann. May 10.
- 2012: Cairo, Egypt meeting with Dr. Akmal Elerian July 31.
- 2012: Beirut, Lebanon visit with Dr. Michel Kfoury, MOH. July 25. Travel to Byblos, Cedars of Lebanon National Forest, and Roman Temple of Jupiter, Baalbek, Bekka Valley.

- 2012: Invited commentary after graduate student defense of Ph.D. thesis presentation on: Awareness of Health Care Workers for Avian and Pandemic Influenza in Egypt. Ain Shams University. Cairo, Egypt. Invited by Dr. Neamtallah Gomaa.
- 2012: Travel to Hokkaido, Japan to visit the Tancho. Jan 4-8.
- 2012: H5N1 Avian Influenza in Hong Kong and China. Discussion with Dr. Alan Wu, Kowloon, Hong Kong. Jan 3.
- 2011: Visit to Malaysia, Nipah village and contact Dr. Paul. Chua.
- 2011: Nipah Virus Outbreaks. Meeting with Dr. Shovon Sazzad, International Centre for Diarrheal Disease Research (ICDDR,B) Dhaka, Bangladesh. Dec 13.
- 2011: Sverdlovsk 1979 Anthrax Outbreak. Meeting with Dr. Lev Grinberg and Dr. A.A.Faina Abramova in Yekaterinburg (Sverdlovsk). Nov 26.
- 2011: Grand Rounds lecturer: Emerging Infectious Diseases: Riyadh Hospital, Saudi Arabia. Dr. Ali El-Barak. Chief of ID Service. July 18.
- 2011: Lecturer: "Emerging Infectious Diseases": Abu Dhabi, UAE July 11-15. UAE Surgeon General and US Central Command.
- 2010: "Endocarditis: A Clinician's Approach to Diagnosis and Management". Imam Khomeini Hospital Medical Complex. Tehran University. Tehran, Iran. June 24. Invited by Dr. Minoo Mohraz, Chairman, Infectious Disease Service, Iranian Research Center for HIV/AIDS.
- 2010: Visiting Lecturer: "Endocarditis: Surgical Indications". Modarres Medical Center. Shahid Beheshti University of Medical Sciences. Tehran, Iran. June 23. Invited by Professor S. Ahmad Hassantash. Department of Cardiovascular Surgery.
- 2010: Participant: "Mass Gathering Medicine" conference. Jeddah, Kingdom of Saudi Arabia (KSA). Oct 23-25. Co-sponsored by Ministry of Health, KSA and Lancet Infectious Diseases. Guest visitor to King Abdullah University of Science and Technology (KAUST), north of Jeddah, KSA. Oct 26. Invited by Sami Al-Garawi, MD, PhD.
- 2010: Visiting Lecturer: "Eosinophilia in Travelers". Lima, Peru. January 18. Invited by Dr. Eduardo Gotuzzo, Director, Tropical Disease Institute, Universidad Peruana Cayetana Heredia).
- 2009: Update on Pandemic H1N1 Influenza". Ain Shams University conference. Cairo, Egypt. November 21.
- 2009: Travel: Petra and Amman, Jordan. November.
- 2009: Speaker: Global Spread of the novel Influenza A (H1N1) virus". Ain Shams University, Cairo, Egypt. June 2nd. Dr. Nematallah Gomaa Ahmed. Visit to NAMRU-3 (Dr. Jeffrey Tjaden) June 3rd.
- 2009: Discussant: H1N1 Pandemic Influenza in the USA. Giza Chest Hospital, Cairo, Egypt. Dr. Mohammad Rashad (Inviter). June 24.
- 2009: Moderator. Intl Meeting on Emerging Diseases (IMED) Feb 23-25. Invited by Dr. Larry Madoff, Editor-in-Chief, Pro-MED.
- 2009: "2001-2009: Bioterrorism Preparedness in the USA". Medical Grand Rounds. Burderholz Cantonhospital. Basel, Switzerland. Feb 13th. Dr. Philip Tarr, Chief of Infectious Diseases Service.
- 2008: Jakarta and Jogyakarta, Indonesia . H5N1 Avian influenza program review for US Agency for International Development (USAID). June 14-30. Medical Team Member.
- 2008: Jakarta and Bandung, Indonesia. H5N1 avian influenza-related travel in Jakarta; and Hasan Sadikin Hospital, Bandung. January.

- 2008: Singapore. Genome Institute of Singapore. Viral Diseases discussion with Dr. Edison T. Liu, Executive Director. January 9.
- 2007: London, Oxford, Paris, Chartres. Blois. Visiting cultural and religious sites. July.
- 2007: Lhasa, Tibet. Visiting culture and religious sites. Meeting with traditional health care providers in Lhasa. (Mid-May).
- 2007: Vienna, Austria. Scientific Organizing Committee member and speaker on “Immune Survivors in the Management of Pandemic Influenza”. International Meeting on Emerging Diseases (“IMED 2007”). (per Dr. Larry Madoff, Editor, ProMed) Feb 23-25.
- 2007 Speaker: “Inhalational Anthrax: New Clinical Staging System and Therapies”. CHUV: University Hospital in Lausanne. (Dr. Philip Tarr, sponsor). Lausanne, Switzerland. February 22nd.
- 2006: Cairo-Giza Chest Hospital (Dr. Rashad Mohammad) Avian and Pandemic Influenza. Travel to Dubai, United Arab Emirates, and Hong Kong (Dr Alan Wu). November-December.
- 2006: Lima, Peru 10th anniversary of the Gorgas-UAB Course in Tropical Medicine (Dr. Eduardo Gotuzzo/David Freedman), and visit to Lake Titicaca (Puno, Peru and Ticale island). Visit to the US Naval Medical Research Unit (NAMRU) in Lima (Capt. Gregory Martin, CDR David Blazes, USN Physicians (Medical Corps). August.
- 2006: Volunteer Physician Work on patient wards, and lecture on influenza: Kisiizi Hospital (Dr. Tonny Tesegweye), (southwest rural) Uganda. May.
- 2006: Training Course Coordinator on “Pandemic Flu: Hospital Preparedness”. Egyptian Ministry of Health and Population (Dr. Nasr El-Sayed) and Project Hope-Egypt (Dr. Michael Forte). June 13-15
Visit to the US Naval Medical Research Unit (NAMRU) in Cairo.
- 2006: Travel: Addis Ababa, the Great Lakes & Rift Valley, Ethiopia. March.
- 2006: Keynote Speaker: Regional H5N1 Avian flu Symposium, Cairo, Egypt, March 27-28. Project Hope (Michael Forte, Director) and Ministry of Health National Training Institute (NTI) (Dr. Nasr El-Sayed).
- 2005: Travel: Istanbul, Turkey; and Athens, Greece. Dec 24-1 Jan.
- 2005: “The New US Pandemic Flu Plan” Thailand Ministry of Public Health, Bureau of Epidemiology (Dr. Kumnuan Ungchusak, Director). Bangkok, Thailand. Dec 2nd.
- 2005: “Pandemic Flu Planning in the USA”. Grand Rounds. Ministry of Health Hospital E. (Dr. Doan Nghi, Hospital Director). Ha Noi, Vietnam. November 28th.
- 2005: Xi’an, China. Visiting Professor. Guest of Dr. Fuyong Jiao. “2005 Update on Clinical Management of Anthrax”. Shaanxi Provincial Hospital. (3 August).
- 2005: Prague, Czech Republic: “Lessons learned from the US Smallpox Vaccination Program 2002-2003” and “Updates on Inhalational Anthrax 2001-2005”. Czech State Office for Nuclear Safety and Department of Control of Prohibition of Chemical and Biological Weapons. (June 22).
Travel: Geneva, and Krakow, Poland.
- 2005: Travel: Egypt (Cairo, Alexandria, Aswan, Luxor), Indonesia (Jakarta), Siem Reap (Angkor Wat, Angkor Thom), Cambodia.

- 2004: Discussant: Infectious Diseases Research Agenda. Guest of Dr. Qingwu Jiang, the Dean of Fudan University School of Public Health. Department of Epidemiology. Shanghai, Peoples Republic of China (PRC). (December 8).
- 2004: Bangkok, Thailand. "Inhalational Anthrax: A new staging system and other lessons from 2001". Dean Sornchai Looareesuwan/ Dr. Sukthana Faculty of Tropical Medicine. Mahidol University, Bangkok, Thailand. (Sept 16th).
- 2004: Umea, Sweden. "Lessons from the USA on Inhalational Anthrax". Department of Infectious Diseases. Dr. Arne Tarnvik, Director. University of Umea, Umea, Sweden. (July 9).
- 2004: Hong Kong. Keynote Speaker. "Public Health Emergency Preparedness". Annual Conjoint Scientific Conference of the Hong Kong Societies of Community Medicine and Family Medicine. Aberdeen, Hong Kong (April 19).
- 2004: Hong Kong. Keynote Speaker. "Preparing for Bioterrorism". Hong Kong Infectious Disease Society. Hong Kong Convention Center. (March 6).
- 2004: Guangzhou, Guangdong Province, China. Invited Speaker. "West Nile Virus as an Emerging Disease in the USA". Grand Rounds, Infectious Disease Division. 3rd Affiliated Hospital, Sun Yat Sen University. (Jan 15).
- 2004: Hong Kong. "Infection Control Recommendations for the 6 CDC Category A Bioterrorism Agents". Chinese University of Hong Kong Centre for Emerging Infectious Diseases. Sha Tin. (Jan 16).
- 2003: Hong Kong Department of Health Symposium on Smallpox Vaccination. Nov 1st. Wan Chai. Hong Kong.
- 2003: Guangzhou (Canton), Guangdong Province, China. Grand Rounds: "Emerging Diseases: SARS and Anthrax". Infectious Disease Division, 3rd Affiliated Hospital, Sun Yat-Sen University. Sept 8.
- 2003: Hong Kong. Prince of Wales Hospital and Queen Mary Hospital. Discussions on SARS and 3 invited lectures on Anthrax, Vaccinia, & Eosinophilic diseases. Sept 5, 6, and 10.
- 2003: Toronto, Ontario. Scarborough General Hospital SARS Outbreak Infection Control Clinical Team. June 26-July 11. Department Grand Rounds on Global SARS July 10th.
- 2003: Hong Kong. Observations on the impact of SARS and use of masks in the general population. (May).
- 2002: Barcelona, Spain. International HIV/AIDS Conference (July 7-12). "Smallpox & smallpox vaccination: The Patient & the Public Health".
- (2001) (September 15. *Cancelled* due to no planes flying in the USA post-Sept 11). Invited by Dr. Eduardo Gotuzzo to speak at the 40th anniversary of the Universidad Peruana Cayetano Heredia, Lima, Peru. "The Vaccine approval process in the USA" and "Eosinophilia: Immunology and the Clinician".
- 2000: Baragwanath Hospital, Soweto, South. Africa and the International AIDS Conference, Durban, S. Africa. Liaison meeting for Washington Hospital Center Infectious Disease Fellow Training opportunity in Soweto (Dr. Kitonga Kiminyo in 2001 with Dr. Jean Nachega).
- 1999: "Clinical Immunology of Eosinophils": Danish Society of Tropical Medicine meeting. Copenhagen, Denmark. (September 29).
- 1999: Gorgas Memorial Institute (with University of Alabama, Birmingham).

- Expert Course in Diagnosis & Therapy of Tropical Diseases. Dr. Eduardo Gotuzzo. Universidad Peruana Cayetano Heredia. January 16-31. Lima, Peru. Guest speaker on "FDA vaccine evaluation".
- 1998 HIV Delegation Leader, People-to-People Ambassador Program Bombay (Mumbai), Pune, Madras, Delhi, India (Nov 7-18) "HIV Vaccines". AIDS Research and Control Conference, Mumbai.
- 1997 HIV Delegation, People-to-People Citizen Ambassador Program Soweto, Johannesburg, Capetown, South Africa (Nov 3-18). Speaker: "HIV Vaccines" University of Capetown Medical School. Capetown, South Africa.
- 1994 "Spinal Fluid Immune Responses against HIV" ARTA International Conference, Innsbruck, Austria
- 1992 HIV Delegation, People-to-People Citizen Ambassador Program Prague, Budapest, Moscow & St. Petersburg (Oct 16-31) Vietnam, Saigon ID Hospital and Pharmacy Rounds (Dec 19-21)
- 1991 International AIDS conference. Poster presentation. Florence, Italy.
- 1982 Medicine Subinternship (8 weeks), Baragwanath Hospital, University of the Witwatersrand, Soweto, South Africa
Driving across Zimbabwe from South Africa to Victoria Falls.
- 1979 Pediatrics Externship (8 weeks) Baragwanath Hospital, University of the Witwatersrand, Soweto, South Africa
- 1977-78 Travel: Europe by train, then by bus, boat, and truck to Turkey, Iran, Afghanistan, Pakistan, India, Nepal.
- 1975 Blois, France (Spring term, Dartmouth College language study)
- 1968-71 Clark AFB High School, Balibago, Luzon, The Philippines

Interests & Hobbies:

Coaching: Little league baseball 1997-2000; 2005-2007.
Soccer 1996-97.
Basketball 2003.
Geography Bee Tutor 2006-07.

Triathalons: W. Va 1995, Delaware 1997, Annapolis, MD 1998. Cleveland 2008.

Biking: 100 mile "Century" (x 4) : 1994 Amish Century, MD; 1995 Seagull Century, Salisbury, MD; 1997 Assateague, MD; 1998 Salisbury, MD.

Marathons: Marine Corps, Washington, D.C 1995, Delaware 1995, NYC 1996, Boston 1997, Marine Corps, Wash, D.C. 1997, and 2000.
All except for Delaware 1995 completed (in times from 3:39-3:57).

Swimming: 2003-2015 non-competitive (5-7/week).

Traveling: Historical, Religious, & Cultural sites: Asia, Africa, Middle East, Europe, South & North America. Tancho (Japanese cranes) in winter: rural SE Hokkaido, Japan.

Interviewing Health Care Workers about Global Infectious Disease Outbreaks and/or traveling to sites of outbreaks e.g.,

---SARS 2003 in Guangzhou, Hong Kong and Toronto.

---H5N1 Avian influenza: Vietnam (2004), Thailand (2005), Egypt 2006 & 2009, Indonesia (2008), Egypt 2012

---Pandemic H1N1 influenza: Egypt 2009
---Nipah virus: Malaysia and Bangladesh 2011

---MERS respiratory virus: 2013 Qatar, Jordan, UAE, KSA, France, UK.
---Anthrax: Russia 2011, China 2010, UK (2010, 2011).
---Ebola Virus Disease: Sierra Leone Aug 10-31
---Ebola virus Disease: Liberia Oct 3-Nov 14, 2014 and March 6-13, 2015.
---MERS: Seoul, Korea.

Ebola work 2014-2015:

Sierra Leone. Aug 10-30. Included clinical work in Freetown's Connaught Hospital Ebola testing and Transit Unit, and at the Sierra Leone Ministry of Health training > 100 health workers on Ebola personal protective equipment (PPE) and Infection Prevention and Control. Started a pediatric working group in Freetown.

Gostin L, **Lucey D**, Phelan A. Ebola declared a Public Health Emergency of International Concern. **JAMA** Sept 17, 2014: Published online August 11.

Ebola symposia @Georgetown University:

Sept 3, 2014: Panelist. Organized by Prof. Lawrence Gostin.

Sept 23, 2014: Co- Organizer and speaker. (Liberian President Ellen Johnson Sirleaf (by skype). On CSPAN, CNN.

March 25, 2015: Organizer with 12 speakers including White House NSC, World Bank Group, Smithsonian Institution, USAID, ProMED, EcoHealth Alliance.

Media: CNN, BBC, CBS, AP, ABC, Wash Post, NYT, USA Today, Bloomberg News, NPR, Al-Jazeera, C-SPAN, Danish News, CCTV, others.

Liberia: Sept 30-Nov 14: MSF-OCB Ebola training course in Brussels then medical doctor in ETU ("ELWA-3") in Monrovia. Fazil Texera, Head of Mission.

March 4-16, 2015: Return to Monrovia to see co-workers and Survivors.

Guinea: Non-clinical care visit to Conakry and Dubreca. May-June 2015.