

Curriculum Vitae and Bibliography  
**TOBY L. MERLIN, M.D.**

**Personal Data:**

Office: Director, Division of Preparedness and Emerging Infections  
National Center for Emerging and Zoonotic Infectious Diseases  
Centers for Disease Control and Prevention  
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Date of birth: August 18, 1952

Place of birth: Atlanta, Georgia

**Education, degrees, and postgraduate training:**

1970-1974: Yale College, New Haven, Connecticut: BA in Philosophy, magna cum laude. Saybrook Fellows Prize. Honors in philosophy.

1976-1980: University of Florida School of Medicine, Gainesville, Florida: M.D. degree. Alpha Omega Alpha. President of Medical School Class.

1980-1981: Stanford University Hospital, Palo Alto, California: Internship in anatomic pathology

1981-1984: University of New Mexico School of Medicine, Albuquerque, New Mexico: Residency in Anatomic and Clinical Pathology

**Centers for Disease Control and Prevention Employment:**

2011- present: **Director, Division of Preparedness and Emerging Infections, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention (CDC), Atlanta, GA.** Dr. Merlin is responsible for this Division which includes CDC programs to the public health system to detect and respond to infectious disease outbreaks, due to natural or man-made threats. The Division includes: the Laboratory Response Network (LRN), which is a network of approximately 150 collaborating laboratories, for detection of biological threat agents; the Epidemiology and Laboratory Capacity (ELC) program, which provides support to the States for infectious disease surveillance; the Emerging Infections Program (EIP), which provides population based investigations into infectious disease outbreaks and their control; the Emergency Preparedness and Response Branch, which coordinates CDC response to

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infectious disease outbreaks; the Health Economics and Modeling Unit, which provides analysis to support preparedness and response to infectious diseases, and; the Arctic Investigations Program (AIP), which provides research and programs to decrease the impact of infectious diseases on arctic populations, especially Native Alaskans.

2007-2011: **Deputy Director, Influenza Coordination Unit, CDC, Atlanta, GA.** Dr. Merlin was responsible for planning and execution of agency-wide domestic and international efforts to control seasonal, avian, and pandemic influenza. The CDC Director created the Influenza Coordination Unit in 2006 to assure Agency wide efforts in basic science, surveillance, vaccine development and use, antiviral development and use, communications, and preparedness, and Dr. Merlin was recruited into this newly created position in early 2007. The Influenza Coordination Unit reports directly to the CDC Director.

2004-2007: **Director, Division of Partnerships and Strategic Alliances, National Center for Health Marketing, CDC, Atlanta, GA.** Dr. Merlin was the founding Director and built this new Division to coordinate CDC partnerships with other federal agencies; businesses and labor; healthcare organizations; educational institutions; public health organizations; foundations, and faith- and community-based organizations. The Division also develops and disseminates health promotion and health protection information targeting the needs of the various sectors, including the pandemic influenza preparedness checklists now available on [pandemicflu.gov](http://pandemicflu.gov).

2003-2004: **Associate Director for Laboratory Medicine, Division of Laboratory Systems, Public Health Program Practice Office, CDC, Atlanta, GA.** Dr. Merlin was responsible for CDC programs in laboratory medicine including quality improvement, patient safety, error reduction, genetic testing, and establishment of laboratory testing programs in Africa as part of the Global AIDS Program.

### **Previous employment and academic appointments:**

2002-2003: **Staff Physician and Elected Member of Medical Practice Board:** Dr. Merlin left the position of Chief Medical Officer of Lovelace Health Systems in 2002 and returned to active practice in the Department of Pathology and Laboratory Medicine. He was elected to the Medical Practice Board, which was the body elected by Lovelace physicians for health system governance, and Dr. Merlin was one of the elected leaders representing Lovelace physicians in the transition of ownership from CIGNA to Ardent Healthcare.

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- 1998-2002: **Chief Medical Officer and Senior Vice President, Lovelace Health Systems:** Lovelace Health Systems was a statewide, integrated healthcare system (at the time consistently ranked in the top 10 integrated systems by Modern Healthcare) with a 250,000-member health plan, 225-bed hospital, 600 member medical staff, network of over 3,000 contracted physicians, and an operating budget of approximately \$550 million. Dr. Merlin was the senior physician executive responsible for medical operations, pharmacy, medical costs, education, research and quality through the hospitals, clinics, and health plan of Lovelace Health Systems. He reported to the President and Chief Executive Officer and was an officer of the nine-member Board of Directors.
- 1999-2001: **Regional Medical Director, CIGNA Healthcare, Bloomfield, CT:** Lovelace Health Systems was a wholly-owned subsidiary of CIGNA Healthcare, which provides healthcare benefits programs for over 14 million people. In 1999, CIGNA appointed the Dr. Merlin be as one of CIGNA's seven Regional Medical Directors and a member of CIGNA's senior medical management team, which formulates national strategies and policies for managed care and PPO health care insurance products.
- 1994-1997: **Chairman, Department of Laboratories, Lovelace Health Systems, Albuquerque, New Mexico and (1995-1997) Department of Laboratories of CIGNA Healthcare of Arizona**
- 1992-1994: **Director of Microbiology and Staff Pathologist, Lovelace Health Systems, Albuquerque, New Mexico**
- 1991-1992: **Vice-chairman, Department of Pathology, University of New Mexico School of Medicine and Chief, Laboratory Services, Albuquerque Veterans Affairs Medical Center**
- 1992-1999: **Clinical Associate Professor of Pathology, University of New Mexico School of Medicine**
- 1989-1992: **Associate Professor of Pathology (tenured) and Assistant Professor of Internal Medicine, University of New Mexico School of Medicine, Albuquerque, New Mexico.**
- 1984-1989: **Assistant Professor of Pathology and Director of Residency Training in Pathology, University of New Mexico School of Medicine, Albuquerque, New Mexico. Director of Microbiology and Staff Pathologist, Albuquerque Veterans Affairs Medical Center.**

**National Offices and Administrative Positions:**

2006-2007: **Editorial Board, Center for Infectious Disease Research and Policy: Source Weekly Briefing.** This is a weekly newsletter on preparedness for businesses published by the Center for Infectious Disease Research and Policy at the University of Minnesota

1999-2002: **Chair, Technology Assessment Council, CIGNA Healthcare,** Bloomfield, Connecticut. This Council formulates national policies regarding health insurance coverage for new technologies.

1997-2003: Member and **Chair (1999-present), Clinical Laboratory Improvement Advisory Committee (CLIAC), Centers for Disease Control and Prevention,** Atlanta, Georgia. CLIAC is a legislatively mandated advisory panel, which advises the CDC, FDA, and CMS on matters related to laboratory medicine. The US Secretary of Health of Human Services appoints individuals to this panel.

2002-2005: **Member, NCCLS (now CLSI) Subcommittee on Clinical Utility of Genetic Testing.** This committee is drafting guidelines for determining the clinical utility of genetic tests for NCCLS, which is a national standard setting body serving the government, industry, and academics.

**Member, NCCLS (now CLSI) Area Committee on Health Services.** This committee is developing guidelines and standards for health services.

1995-2000: Editorial Board, *Human Pathology*

1991- 1998: Editorial Board, *International Journal of Surgical Pathology*

1996-1998: National Board of Medical Examiners, USMLE Step 1 Test Committee member

1991-1993: National Board of Medical Examiners, Pathology Test Committee

**Licensure and Specialty Boards:**

1981: Diplomate, National Board of Medical Examiners

1984-2009: New Mexico medical license, #84-80

1984: Diplomate in Anatomic and Clinical Pathology, American Board of Pathology

1995-present: Arizona medical license, #23589

2002: Tennessee medical license, MD000036183

**Awards:**

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- 2013: CDC National Center for Emerging and Zoonotic Infectious Diseases  
Director's Recognition Award
- 2006: CDC CCHIS Distinguished Service Award for Developing Pandemic  
Influenza Checklists
- 2006: CDC CCHIS Distinguished Service Award for Directors Emergency  
Operations Center and Hurricane Katrina Response Team
- 2004: CDC PHPPO Honor Award for Collaboration on Rapid HIV Testing
- 2003: CDC PHPPO 2003 Award and Certificate of Appreciation
- 2003: CDC Certificate of Recognition and Appreciation
- 2001: American Medical Group Association Preeminence Award

**Publications:**

Mutiple authors including Toby L. Melrin: Estimating the burden of 2009 pandemic influenza ! (H1N1) in the United States (April 2009-April 2010). *Clinical Infectious Diseases* 2011;52 Suppl 1: S75-S-82

Santibanez S, Fiore AE, Merlin TL, Redd S: A primer on strategies for prevention and control of seasonal and pandemic influenza. *American Journal of Public Health* 99;52;Supplememnt 2, S1-S9 (2009)

Gagnon M, Inhorn S, Hancock J, Keller B, Carpenter D, **Merlin T**, Hearn T, Thompson P, Whalen R: Comparison of Cytology Proficiency Tests – Glass slides versus virtual slides. *Acta Cytologica* 2004;48788-794.

**Merlin TL**: The fungus among us. *Human Pathology* 1998;29:1179-1180.

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Nolte KB, Feddersen RM, Foucar K, Zaki SR, Koster FT, Madar, D, **Merlin TL**, McFeely PJ, Umland ET, Zumwalt RE: Hantavirus pulmonary syndrome in the United States: Pathologic description of a disease caused by a new agent. *Human Pathology* 1995;26:110-120.

Lewis SL, Keller DE, Tzamaloukas AH, Hallin GW, **Merlin TL**, Palmer DL: CAPD peritonitis with unspciated rapidly growing mycobacteria and unusual blood and peritoneal lymphocytes. *Peritoneal Dialysis International* 1994;14:280-282.

Palmer DL, Hjelle BL, Wiley CA, Allen S, Wachsman W, Mills RG, Davis LE, **Merlin TL**: Early HIV-1 infection despite immediate combination antiviral therapy after infusion of contaminated white cells. *American Journal of Medicine* 1994;97:289-295.

Duchin JS, Koster FT, Peters CJ, Simpson GL, Tempest B, Zaki SR, Ksiazek TG, Rollin PE, Nichol S, Umland ET, Moolenaar RL, Reef SE, Nolte KB, Gallaher MM, Butler JC, Breiman RF and the **Hantavirus Study Group**: Hantavirus pulmonary syndrome: a clinical description of 17 patients with a newly recognized disease. *New England Journal of Medicine* 1994;330(14):949-955.

**Merlin TL**, Gibson DW, Connor DH: Infectious and Parasitic Diseases, in *Pathology*, 2<sup>nd</sup> edition, Ruben E and Farber JL, eds., JB Lippincott, Philadelphia, 1994.

Davis LE, Hjelle BL, Miller VE, Palmer DL, Llewellyn AL, **Merlin TL**, Young SA, Mills RG, Wachsman W, Wiley CA: Early viral brain invasion in iatrogenic human immunodeficiency virus infection. *Neurology* 1992;42(9):1736-9.

Schuyler MR, Gott K, Shopp G, **Merlin TL**: CD-5 negative cell mediated experimental hypersensitivity pneumonitis. *American Reviews of Respiratory Diseases* 1992;145(5):1185-90.

Koponen, Zlock D, **Merlin TL**, Palmer DL: *Pseudomonas pseudomallei* infection: acute osteomyelitis presenting 13 years after exposure. *Archives of Internal Medicine* 1991;151(3):605-608.

**Merlin TL**, Fenoglio-Preiser CM: The use of genetic probes in the diagnostic laboratory II: microbiologic applications. *Advances in Pathology*, Chicago, Yearbook Medical Publishers, Volume 2, 1990.

Schabb PC, Murphy G, Tzamaloukas AH, Hayes MB, **Merlin TL**, Eisenberg B, Avasthi PS, Worrell RV: Femoral neck fractures in patients on long-term dialysis. *Clinical Orthopedics and Related Research* 1990;260:224-231.

**Merlin TL**, Boyd MT: Urgent evaluation of the infected burn wound. *Surgical Pathology* 1989;2:79-83.

**Merlin TL**, Davis GE, Anderson WL, Moyzis RK, Griffith JK: Aminoglycoside uptake increased by *tet* gene expression. *Antimicrobial Agents and Chemotherapy* 1989;33:1549-1552.

**Merlin TL**, Tzamaloukas AH: *Mycobacterium chelonae* peritonitis associated with continuous ambulatory peritoneal dialysis. *American Journal of Clinical Pathology* 1989;91:717-719.

Tzamaloukas AH, His K, Ferguson BJ, **Merlin TL**, Avasthi PS: Glycosylated hemoglobin measured by affinity chromatography in diabetic and non-diabetic patients on chronic dialysis. *Western Journal of Medicine* 1989;150:415-419.

**Merlin TL**, Corvo DL, Gill JH, Griffith JK: Enhanced gentamicin killing of *Escherichia coli* by *tet* gene expression. *Antimicrobial Agents and Chemotherapy* 1989;33:230-232.

Tzamaloukas AH, Rogers K, Ferguson BJ, Leyman PC, Sena P, **Merlin TL**, Avasthi PS: Management of diabetes on continuous ambulatory peritoneal dialysis with subcutaneous insulin. *Advances in Continuous Peritoneal Dialysis/1988* Toronto, University of Toronto Press, 1988.

Tzamaloukas AH, Kunzelman DL, Avasthi PS, Carroll LL, Scremin E, **Merlin TL**, Bickenell J: Carpal tunnel syndrome in chronic dialysis. *Dialysis and Transplantation* 1988;17:525-541.

**Merlin TL**, Little JV: Laboratory diagnosis of genital herpes infections. *Advances in Pathology*, Chicago, Yearbook Medical Publishers, 1988;1:89-109.

Runyon BA, Umland ET, **Merlin TL**: Ascitic fluid culture: inoculation of blood culture bottles with ascitic fluid at the bedside markedly improves the detection of spontaneous bacterial peritonitis. *Archives of Internal Medicine* 1987;147:73-75.

**Merlin TL**: Chronic mononucleosis: pitfalls in laboratory diagnosis. *Human Pathology* 1986;17:2-8.