

CURRICULUM VITA

Sandra Lynn Fowler, MD, MSc

Business Address:

Department of Pediatrics
Division of Infectious Diseases
Medical University of South Carolina
96 Jonathan Lucas Street
Charleston, SC 29425

EDUCATION:

1979	Agnes Scott College Decatur, Georgia B.A., Biology
1983	University of Tennessee Center for Health Sciences Memphis, Tennessee M.D.
2004	London School of Hygiene and Tropical Medicine University of London London, UK M.Sc., Epidemiology

TRAINING:

1983-1986	Resident in Pediatrics Children's Hospital Medical Center Cincinnati, Ohio
1987-1990	Fellow in Infectious Diseases Children's Hospital Medical Center Cincinnati, Ohio
1999	Intensive course in epidemiology and medical statistics London School of Hygiene and Tropical Medicine London, UK

CERTIFICATION:

American Board of Pediatrics April, 1988
American Board of Pediatrics, Subspecialty Board in Pediatric Infectious Diseases November, 1994 Renewal, March, 2001

FACULTY APPOINTMENTS:

1987-1990
Clinical Instructor in Pediatrics
University of Cincinnati
College of Medicine

1990-2004
Assistant Professor of Pediatrics
Division of Infectious Diseases
Medical University of South Carolina
Charleston, South Carolina

2004-
Associate Professor of Pediatrics
Division of Infectious Diseases
Medical University of South Carolina
Charleston, South Carolina

ADMINISTRATIVE APPOINTMENTS:

1987-1990
Attending Physician
Emergency Room
Children's Medical Center
Dayton, Ohio

1986-1987
Attending Physician
Emergency and Intensive Care
East Tennessee Children's Hospital
Knoxville, Tennessee

1990-
Attending Physician
Pediatric Infectious Diseases
Medical University of South Carolina
Charleston, SC

HOSPITAL APPOINTMENTS:

1986-1987
East Tennessee Children's Hospital
Pediatrics/Inactive

1987 – 1990
Dayton Children's Hospital
Pediatrics/Inactive

1990-
Medical University of South Carolina Hospital
Pediatrics/Active

1991-2000
Roper Hospital
Pediatrics/Inactive

MEMBERSHIPS:

American Society for Microbiology
Infectious Diseases Society of America
Pediatric Infectious Diseases Society
NIH Collaborative Antiviral Study Group
Southeastern Pediatric Infectious Diseases Study Group
Society for Healthcare Epidemiology of America
American Academy of Pediatrics

EDITORIAL EXPERIENCE:

Reviewer, Clinical Infectious Diseases
Reviewer, Journal of the American Academy of Dermatology
Reviewer, Journal of Pediatrics
Reviewer, Pediatric Infectious Disease Journal
Reviewer, Archives of Internal Medicine

EXTRAMURAL FUNDING:

Phase III, randomized, placebo-controlled, blinded investigation of six weeks vs. six months of oral valganciclovir therapy in infants with symptomatic congenital cytomegalovirus infection (CASG 1122)
PI: Richard Whitley, MD
Fund Source: NIAID/NIH

Adapting MST to address transmission risk behaviors in HIV+ young people
PI: Elizabeth Letourneau, PhD
Fund Source: NIMH/NIH
Project Dates: 7/07-6/09
\$ 676,412

Phase III, randomized, double-blind study comparing the immunogenicity and safety of 3 commercial scale consistency lots of GlaxoSmithKline's herpes simplex candidate vaccine in healthy female subjects aged 10-17 years
Fund source: Glaxo SmithKline
Project Dates 12/03-6/05

An open, controlled, randomized, comparative, phase IIIb study to evaluate the immunogenicity, safety and reactogenicity of GlaxoSmithKline Biologicals' combined hepatitis A and hepatitis B vaccine (Twinrix) given on an accelerated schedule, compared to separate vaccinations with GlaxoSmithKline Biologicals' monovalent hepatitis A (Havrix) and hepatitis B (Engerix-B) vaccine in healthy adults.
Fund source: Glaxo SmithKline
Project dates: 5/03 – 7/04

A phase IV, open, randomized multicenter US study of the safety of combination hepatitis A and hepatitis B vaccine with monovalent hepatitis A and B vaccines in healthy adults
Fund source: Glaxo SmithKline
Project dates: 8/01 – 7/02

A double-blind, randomized, placebo controlled trial to assess the efficacy of mupirocin in eradicating the nasopharyngeal colonization with Streptococcus pneumoniae, Hemophilus influenzae, and/or Moraxella catarrhalis.
Fund source: SmithKline Beecham
Project dates: 1/00 - 12/00

A phase III, blinded, randomized, multicenter US study evaluating the clinical consistency of three production lots of SmithKline Beecham Biologicals' MMR vaccine (PRIORix) and comparability of PRIORix with Merck's MMR II vaccine administered to healthy children 12 -18 months of age.
Fund source: SmithKline Beecham Biologicals
Project dates: 6/98 - 12/01

A placebo-controlled phase III evaluation of suppressive therapy with oral acyclovir suspension following neonatal herpes simplex virus infection involving the central nervous system.
Fund source: NIH/NIAID/CASG/UAB subcontract
Principal Investigator: Sandra L. Fowler
Project dates: 7/1/97 - ongoing

A placebo-controlled phase III evaluation of suppressive therapy with oral acyclovir suspension following neonatal herpes simplex virus infections involving skin, eyes, or mucus membranes.

Fund source: NIH/NIAID/CASG/UAB subcontract

Principal Investigator: Sandra L. Fowler

Project dates: 7/1/97 - ongoing

A phase III study to evaluate the safety and efficacy of ganciclovir for the treatment of symptomatic central nervous system congenital cytomegalovirus infections.

Fund source: NIH/NIAID/CASG/UAB subcontract

Principal Investigator: Sandra L. Fowler

Project dates: 7/1/97 - 6/30/98

Pediatric AIDS Clinical Trials Group (ACTG) studies (numerous)

Fund source: NIH/NICHD/ACTG/Westat subcontract

Co-investigator: Sandra L. Fowler (George M. Johnson, Principal Investigator)

Project dates: 8/1/93 – 2002

A double blind, randomized, placebo controlled study to evaluate the safety and efficacy of SmithKline Beecham Biologicals herpes simplex candidate vaccine (gD2+) with MPL in HSV seropositive or seronegative subjects without genital herpes disease

Fund source: SmithKline Beecham

Principal Investigator: Sandra L. Fowler

Project Dates: 10/18/96-10/10/97

Award Amount: \$240,000

A double blind, randomized, parallel group, multi-center study to compare the safety and efficacy of 10 day therapy of oral famciclovir 3x/day with oral valaciclovir 2x/day in reducing the frequency of subsequent lesional recurrences in HSV-2 in patients with primary genital HSV

Fund Source: SmithKline Beecham

Principal Investigator: Sandra L. Fowler

Project Dates: 9/19/96-10/14/98

Award Amount: \$27,500

A double blind, randomized, placebo controlled study to assess the safety and efficacy of multiple IM doses of SB209763 in infants and young children with underlying diseases against serious RSV infection

Fund Source: SmithKline Beecham

Principal Investigator: Sandra L. Fowler

Project Dates: 8/9/95-8/31/96

Award Amount: \$45,000

Herpes Simplex Candidate Vaccine (gD2+) with MPL to prevent genital herpes in healthy consorts of persons with genital herpes disease.

Fund Source: SmithKline Beecham

Principal Investigator: Sandra L. Fowler

Project Dates: 7/1/94-6/30/96

Award Amount: \$23,800

Oral Famciclovir for the suppression of recurrent genital herpes infection (protocol 033)

Fund Source: SmithKline Beecham

Principal Investigator: Sandra L. Fowler

Project Dates: 5/1/94-4/30/96

Award Amount: \$64,800

A double blind, dose ranging study to assess the safety and efficacy of oral BRL42810 in patients with first episode genital herpes

Fund Source: SmithKline Beecham
Principal Investigator: Sandra L. Fowler
Project Dates: 1/1/92-11/30/92
Award Amount \$85,875

Safety and efficacy of oral famciclovir in the suppression of recurrent genital herpes infection.
Fund Source: SmithKline Beecham
Principal Investigator: Sandra L. Fowler
Project Dates: 12/1/91-11/30/92
Award Amount: \$91,940

Safety and efficacy of oral BRL 42810 in patients with first episode genital herpes infection
Fund Source: SmithKline Beecham
Principal Investigator: Sandra L. Fowler
Project Dates: 10/1/91-9/30/92
Award Amount: \$42,318

A double blind, randomized, placebo-controlled study to evaluate the safety of SmithKline Beecham Biologicals herpes simplex candidate vaccine (gD2+) with MPL and its efficacy to prevent herpes
Fund Source: SmithKline Beecham
Principal Investigator: Sandra L. Fowler
Project Dates: 5/1/96-8/31/97
Award Amount: \$67,875

INTRAMURAL FUNDING:

Sites of CA-MRSA colonization: a pilot study
PI: Sandra L. Fowler
Project Dates: 8/06 – 7/07

Fund Source: GCRC
Growth failure in Pediatric HIV infection: Pilot Study
Fund Source: GCRC
Principal Investigator: Sandra L. Fowler
Project Dates: 8/1/94-7/31/95

Fund Source: Children's Hospital Fund
Principal Investigator: Sandra L. Fowler
Project Dates: 10/1/91-9/30/92
Award Amount: \$42,758

Formation and evaluation of radiolabeled anti-HSV antibody to enhance gamma camera imaging of experimental herpes encephalitis
Fund Source: URC
Principal Investigator: Sandra L. Fowler
Project Dates: 3/1/91- 2/28/92
Award Amount: \$3,173

Fund Source: Children's Hospital Fund
Principal Investigator: Sandra L. Fowler
Project Dates: 10/1/90-9/30/91
Award Amount: \$31,000

HONORS:

Mortar Board Honor Society
Charles A. Dana Scholar

Best Doctors in America, 2001-2002, 2005-2006
MUSC Department of Pediatrics Resident Teaching
Award, 2006

COMMITTEES:

Institutional Review Board for Human Research
Medical University of South Carolina, 1992-2000

General Clinical Research Center Scientific Advisory Board,
1998-

University Medical Associates Executive Compliance Committee,
2003 -

Medical University Hospital Infection Control Committee, 2006 –

Department of Pediatrics Compliance Committee, 2001
Chair, 2003 –

MUSC Children's Hospital Infection Prevention Committee, 2007-

MAJOR TEACHING RESPONSIBILITIES:

1998- present: Instructor, Doctoring Curriculum: Introduction to Clinical Reasoning and Evidence-based
Medicine

2006- present: Co-director, Department of Pediatrics resident teaching program in Evidence-Based
Medicine

1990-present: Pediatric Infectious Diseases student and housestaff elective

MAJOR CLINICAL RESPONSIBILITIES:

Pediatric infectious diseases inpatient and outpatient services
Pediatric HIV infection

MENTORING:

2006-07: Brooke Chase and Michelle Haynes, Dental student research. Awarded David Rogers
Fellowship for dental student research in HIV disease

2007-08: Rita Chen, Sanjiv Pasala, Michael Oltmann, Pediatrics resident research project

2007-08: Resident mentoring program: Cameron Anderson, Emily Hamilton

INVITED LECTURES:

Central nervous system infections in children. American Academy of Pediatrics, South Carolina Chapter
Annual Scientific Meeting, Hilton Head Island, SC May 2008.

Perinatal HIV prevention: prophylaxis and management. Neonatal Pharmacology Conference,
Charleston, SC, November 2007

Central nervous system infections: old and new. Pediatric Neuroscience Update, Kiawah Island, SC,
March 2007.

Update on central nervous system infections. South Carolina Academy of Family Physicians, Litchfield,
SC, July 2006.

Fowler SL and Johnson GJ. Subtherapeutic serum levels of lopinavir with capsule form of lopinavir-
ritonavir. 2006 Pediatric Academic Societies' Annual Meeting. San Francisco, 2006.

Mirza A, Subedar A, **Fowler SL**, Murray DL, Arnold S, Tristram D, Wludya P, Rathore MH. Physician recommendation is the most important determinant for vaccination in children with chronic medical conditions. National Immunization Conference. Kansas City, MO, 2007.

SUBMITTED PRESENTATIONS:

Fowler SL, Suresh G, Cousineau LK, Key LL. Genesis and evolution: inception and integration of evidence-based medicine into the pediatrics curriculum. Association of Pediatric Program Directors Spring Meeting. Honolulu, HI, 2008.

Chen R, Pasala S, Oltmann M, and **Fowler SL**. Outcomes of peripherally-inserted central catheters (PICCs) in children. Pediatric Academic Societies' and Asian Society for Pediatric Research Joint Meeting. Honolulu, HI, 2008.

Salgado CD, **Fowler SL**. The epidemiology of community-acquired methicillin-resistant *Staphylococcus aureus* (CA-MRSA) in a children's hospital. Society for Healthcare Epidemiology of America. Annual Scientific Meeting. Orlando, FL, 2008.

Fowler SL, Hainer B, Soper D. Implementation of universal postpartum Tdap. Society for Healthcare Epidemiology of America. Annual Scientific Meeting. Orlando, FL, 2008.

Mirza A, Subedar A, **Fowler SL**, Murray DL, Arnold S, Tristram D, Wludya P, Rathore MH. Physician recommendation is the most important determinant for vaccination in children with chronic medical conditions. National Immunization Conference. Kansas City, MO, 2007.

COMMUNITY SERVICE:

Elder, 1st (Scots) Presbyterian Church
Chair, World Missions Division, 1st (Scots) Presbyterian Church, 1999-2001
Medical mission to LaGonave Haiti 1998, 1999
President, Charleston Family Y Board of Directors, 2001-2003
President, Coastal Cyclists, 2007, 2008
Agnes Scott College Alumnae Association Board of Directors, 2006-08

ORIGINAL PUBLICATIONS:

Weist DB, **Fowler SL**, Garner SS, and Simons DR. Fluconazole in neonatal disseminated candidiasis. Archives of Disease in Childhood, 66:1002, 1991.

Fowler SL, Harrison CJ, Myers MG, and Stanberry LR. Outcome of herpes simplex virus type 2 infection. in guinea pigs. Journal of Medical Virology, 36:303-308, 1992.

Fowler SL, Forbes RA. HSV-1 replication in rotation-mediated reaggregated murine brain. Journal of Medical Virology, 45:405-409, 1995.

Mertz GJ, Loveless MO, Levin MJ, Kraus SJ, **Fowler SL**, Goade D, Tyring SK, and the Collaborative Famciclovir Genital Herpes Research Group. Oral famciclovir for suppression of recurrent genital herpes simplex virus infection in women: a multicenter, placebo-controlled trial. Archives of Internal Medicine, 157:343-349, 1997.

Fowler SL. Encephalitis in a boy from South Carolina. Pediatric Infectious Disease Journal, 16:824-825, 1997.

Fowler SL. Disappearing and emerging infectious diseases. Journal of the South Carolina Medical Association, 93:293-295, 1997.

Fowler SL, Rhoton B, Springer SC, Messer SA, Hollis RJ, Pfaller MA. Evidence for person-to-person transmission of *Candida lusitanae* in a neonatal intensive care unit. *Infection Control and Hospital Epidemiology*, 19:343-345, 1998.

Fowler SL. A light in the darkness: Predicting outcomes for congenital cytomegalovirus infections (editorial). *Journal of Pediatrics* 137:4-6, 2000.

Katko EM, Johnson GM, **Fowler SL**, and Turner RB. Assessment of adherence to medications in human immunodeficiency virus-infected children. *Pediatric Infectious Diseases Journal* 20:1174-1176, 2001.

Turner RB, **Fowler SL**, Berg K. Treatment of the common cold with troxerutin. *APMIS* 112:605-11, 2004.

Fowler SL, Dickey MD, Kern P, Zimet GD, Rosenthal SL. Perceptions of parents seeking and experimental herpes simplex vaccine for their adolescent and preadolescent daughters. *Pediatric Infectious Diseases Journal* 25:747-8, 2006.

Chase BA, Haynes M, **Fowler SL**, Reed S. Dental eruption status of HIV-infected children compared to household peers. *Frater*, Fall 2007.

Mirza, A, Subedar A, **Fowler SL**, Murray DL, Arnold S, Tristram D, Abuelreish M, Wludyka P, Chiu TT, Rathore MH. Influenza vaccine: awareness and barriers to immunization in families of children with chronic medical conditions other than asthma. *Southern Medical Journal*, in press, 2008.

REVIEWS AND CHAPTERS:

Fowler SL and Harrison CJ. Painful swelling of the head, face, and neck. Otolaryngology: Problems in Primary Care, ed. D. Thomas Upchurch, Medical Economics Books, Oradell, NJ, 1988.

Holley HP, Jr. and **Fowler SL**. Update on herpes simplex infections. *Hospital Medicine*, 29:28- 45, 1993.

Fowler SL. Varicella. *Conn's Current Therapy*, RE Rakel, Ed. WB Saunders and Co., Philadelphia, 67-69, 1994.

Higerd TB, **Fowler SL**. Gram-positive cocci: staphylococci and streptococci. *Microbiology and Infectious Diseases*, 3rd Ed., ed. Gabriel Virella, Williams and Wilkins, Baltimore, MD, 1997.

Fowler SL, Turner RB. Viral pneumonia. *Essence of Office Pediatrics*, 1st Ed., ed. James A. Stockman and Jacob A. Lohr, W.B. Saunders, Philadelphia, PA (2001).