

CURRICULUM VITAE

NAME: Werner Ernst Bischoff, M.D. M.S. Ph.D.

CURRENT ACADEMIC TITLE: Assistant Professor

BUSINESS ADDRESS: Wake Forest University School of Medicine
Department of Internal Medicine
Section of Infectious Diseases
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EDUCATION:

October 1985- October 1992	Medical School Georg-August-University Göttingen, Germany M.A., M.D.
June 2000- August 2002	Wake Forest University School of Medicine Winston-Salem, North Carolina Master of Clinical Epidemiology and Health Services Research
August 2003- May 2006	University of North Carolina at Chapel Hill Chapel Hill, North Carolina Doctor of Philosophy in Epidemiology

POSTDOCTORAL TRAINING:

November 1992- November 1994	Fellow Hygiene and Environmental Medicine Health State Department of Lower Saxony Hanover, Germany
December 1994- November 1995	Fellow Surgery, Surgical ICUs Medical School of Hanover Hanover, Germany
December 1995- April 1996	Fellow Hygiene and Environmental Medicine Health State Department of Lower Saxony Hanover, Germany
November 1997- December 1999	Fellow Microbiology and Infection Epidemiology Medical School of Hanover Hanover, Germany
August 2003-	Doctoral Student

May 2006
PhD Epidemiology
School of Public Health
University of North Carolina at Chapel Hill, NC

UNIFORMED SERVICE:

July 1984-
September 1985
Military Service

PROFESSIONAL LICENSURE:

May 1994
License as Physician, Hanover, Germany

SPECIALTY CERTIFICATION:

April 1998
Board Certified in Hygiene and Environmental Medicine
Hanover, Germany

EMPLOYMENT:

July 2006-
Present
Assistant Professor, Faculty
Department of Internal Medicine, Section on Infectious Diseases
Wake Forest University School of Medicine, Winston-Salem, NC

September 2002-
June 2006
Instructor
Department of Internal Medicine, Section on Infectious Diseases
Wake Forest University School of Medicine
Winston-Salem, North Carolina

September 2005-
Present
Associate, cross appointment
Department of Public Health Sciences
Wake Forest University School of Medicine,
Winston-Salem, NC

OTHER PROFESSIONAL APPOINTMENTS AND INSTITUTIONAL SERVICES:

May 1996-
October 1997
Research Scholar
Medical College of Virginia
Campus of Virginia Commonwealth University
Department of Internal Medicine
Richmond, Virginia

July 2000-
September 2002
Research Fellow
Department of Internal Medicine, Section on Infectious Diseases
Wake Forest University School of Medicine
Winston-Salem, North Carolina

June 2003	Member of the NIH Special Emphasis Panels for the National Biocontainment Laboratories and the Regional Biocontainment Laboratories
August 2003- May 2006	Research Assistant GlaxoSmithKline Research Triangle Park, North Carolina

PROFESSIONAL MEMBERSHIPS:

1986-Present	American Society for Microbiology
1986-Present	Society for Healthcare Epidemiology of America
1986-2003	German Society for Microbiology and Hygiene
1987-2004	German Society for Hygiene and Environmental Medicine

GRANTS:

July 2000- September 2002	“The Cloud Adult” NIH Grant, R01 AI46558-01A1 Co-Investigator Principle Investigator: Robert J. Sherertz, M.D.
September 2002- Present	“The Cloud Adult” NIH Grant, RO1 AI46558-01A1 Co-investigator Principle Investigator: Robert J. Sherertz, M.D.
November 2005- Present	‘Wake Forest Echinacea Pre-Clinical Trial’ The North Carolina Strategic Technology Applied Research Program Principal Investigator

BIBLIOGRAPHY:

Chapters in Books:

Bischoff WE, Sander J. Minimizing the risk of postoperative surgical site infections and improving the compliance of health care workers by optimized ventilation technique in operating rooms. In: Sander U, Sander J, eds. *Quality Management in Hospitals – Congress for Hospital Hygiene*. Hanover, Germany: J. S. Verlag, Ronnenberg 1996:319-334.

Bischoff WE. Hygiene of hands in surgical ICUs. In: Sander J, ed. *Hygiene of Hands in Medicine*. Hanover, Germany: J. S. Verlag, Ronnenberg 1996:301-322.

Bischoff WE. Prophylaxis and therapy of infections. In: Tscherne, Regel, eds. *Chirurgie, Vol. 1 Traumamanagement*. New York, Berlin, Heidelberg: Springer Verlag 1997:375-381.

Pape HC, Bischoff WE. Intensive care unit. In: Tscherne, Regel, eds. *Chirurgie*, Vol. 1 Traumamanagement. New York, Berlin, Keidelberg, New York: Springer Verlag 1997:80-100.

Bischoff WE, Edmond MB. *Staphylococcus aureus*. In: Wenzel RP, Edmond MB, Pittet D, Devaster J-M., Brewer T, Geddes A, Butzler J-P, eds. *A Guide to Infection Control in the Hospital*. Hamilton, Ontario: B. C. Decker Inc. 1998: 128-131

Bischoff WE. Surveillance for infections associated with vascular catheters. In: Lautenbach E, Woeltje K. eds. *Practical Handbook for Healthcare Epidemiologists*. (2nd ed.) Thorofare, NJ: Slack Incorporated 2004: 91-98

Journal Articles:

Bischoff WE, Sander U, Sander J. Operating room ventilation in daily routine: a practical study. *Int J Hyg Environ Health* 1994;195:306-318.

Bischoff WE, Kindermann A, Sander U, Sander J. Comparison of air supply ceilings (ceilings with supporting flow outlets) with laminar air ceilings in operating theatres of the A type (DIN 1946 part 4) during operations. *Int J Hyg Environ Health* 1995;198:84-95.

Weimann A, Bastian L, Bischoff WE, Grotz M, Hansel M, Lotz J, Trautwein C, Tusch G, Schlitt HJ, Regel G. Influence of arginine, omega-3 fatty acids and nucleotide-supplemented enteral support on systemic inflammatory response syndrome and multiple organ failure in patients after severe trauma. *Nutrition* 1998;14:165-172.

Journal Articles (submitted and accepted):

Bastian L, Weimann A, Bischoff W, Meier PN, Grotz M, Stan C, Regel G. Clinical effects of supplemental enteral nutrition solution in severe polytrauma. *Unfallchirurg*. 1998;101:105-14.

Bischoff WE, Reynolds TM, Hall GO, Wenzel RP, Edmond MB. Molecular epidemiology of vancomycin-resistant enterococcus faecium in a large urban hospital over a five-year period. *J Clin Microbiol* 1999;37:3912-3916.

Bischoff WE, Reynolds TM, Sessler CN, Edmond MB, Wenzel RP. Handwashing compliance by health care workers: the impact of introducing an accessible, alcohol-based hand antiseptic. *Arch Intern Med* 2000;160(7):1017-1021.

Bischoff WE. Prosthetic valve endocarditis and vascular grafts. *Sem Infect Control* 2001;1(4):234-244.

Bischoff WE, Bassetti S, Bassetti-Wyss BA, Wallis ML, Tucker BK, Reboussin BA, D'Agostino Jr RB, Pfaller MA, Gwaltney Jr JM, Sherertz RJ. Airborne dispersal as a novel transmission route of coagulase-negative staphylococci: Interaction between coagulase-negative staphylococci and rhinovirus infection. *Infect Control Hosp Epidemiol* 2004;25:504-11

Bischoff WE, Wallis ML, Tucker KB, Reboussin BA, Sherertz RJ. *Staphylococcus aureus* nasal carriage in a student community: prevalence, clonal relationships, and risk factors. *Infect Control Hosp Epidemiol* 2004;25:485-91

Bassetti S, Bischoff WE, Sherertz RJ. Outbreak of methicillin-resistant *Staphylococcus aureus* infection associated with an outbreak of severe acute respiratory syndrome. *Clin Infect Dis* 2005;40:633-4

Bassetti S, Bischoff WE, Walter M, Bassetti-Wyss BA, Mason L, Reboussin BA, D'Agostino RB Jr, Gwaltney JM Jr, Pfaller MA, Sherertz RJ. Dispersal of *Staphylococcus aureus* into the air associated with a rhinovirus infection. *Infect Control Hosp Epidemiol* 2005;26:196-203

Bassetti S, Bischoff WE, Sherertz RJ. Are SARS superspreaders cloud adults? *Emerg Infect Dis* 2005;11:637-8

Bischoff WE, Tucker BK, Wallis ML, Reboussin BA, Pfaller MA, Hayden FG, Sherertz RJ. 'Gesundheit!' Sneezing, the common cold, allergies and *Staphylococcus aureus* dispersal. accepted 07/2006 JID

Bischoff WE, Tucker BK, Wallis ML, Reboussin BA, Pfaller MA, Hayden FG, Sherertz RJ. Preventing the airborne spread of *Staphylococcus aureus* under a common cold: The effect of scrubs, gowns, and masks. submitted 08/2006 JID

PRESENTATION PORTFOLIO

PRESENTATIONS AT NATIONAL/INTERNATIONAL MEETINGS:

Ventilation technique and air hygiene in operating rooms. Congress, Hanover, Germany, May 1990.

Contamination by airborne germs in the anesthesiology working area of an operating room. Anesthesiology Congress, Sylt, Germany, June 1990.

Contamination by airborne germs in the anesthesiology working area of an operating room. Training Program - Hospital Hygiene, Viersen, Germany, November 1990.

Hygiene in operating rooms. Congress, Hanover, Germany, December 1991.

Technical equipment in hospitals TK'92. Congress, Hanover, Germany, September 1992.

Congress of the Society of Hygiene and Environmental Medicine (GHS), Heidelberg, German, March 1993.

Comparison of air supply ceilings (ceilings with supporting flow outlets) with laminar air ceilings in operating theatres of the A type (DIN 1946 Part 4) during operations. 46th Congress of the German Society of Hygiene and Microbiology (DGHM), Kiel, Germany, September 1994.

Particle counting in wound vicinity for quality improvement of ventilation technique in operating rooms. 47th Congress of the German Society of Hygiene and Microbiology (DGHM), Würzburg, Germany, September 1995.

Outbreak of methicillin-resistant *Staphylococcus aureus* (MRSA) infections related to prison transfer. 7th Annual Meeting of The Society for Healthcare Epidemiology of America, St. Louis, Missouri, USA, April 27-29, 1997.

Is liquid dial soap effective against vancomycin resistant enterococci (VRE) and methicillin resistant *Staphylococcus aureus* (MRSA)? 7th Annual Meeting of The Society for Healthcare Epidemiology of America, St. Louis, Missouri, USA, April 27-29, 1997.

Air pollution in wound vicinity and the role of personal activity in a centrally ventilated operating room. 7th Annual Meeting of The Society for Healthcare Epidemiology of America, St. Louis, Missouri, USA, April 27-29, 1997.

Dating multidose vials (DVS): an analysis of location and content. 7th Annual Meeting of The Society for Healthcare Epidemiology of America, St. Louis, Missouri, USA, April 27-29, 1997.

Occurrence of vancomycin-resistant *Enterococcus faecium* (VREF) strains in clinical isolates. 35th Annual Meeting of the Infectious Diseases Society of America, San Francisco, California, USA, September 13-16, 1997.

Use of multidose vials in a tertiary care center: cost analysis of 30-day expiration policy versus manufacturer's expiration date policy. 35th Annual Meeting of the Infectious Diseases Society of America, San Francisco, California, USA, September 13-16, 1997.

Multiple dose vial policy: a survey of U.S. hospitals. 35th Annual Meeting of the Infectious Diseases Society of America, San Francisco, California, USA, September 13-16, 1997.

Handwashing compliance by health care workers: the impact of an education and patient awareness program. 8th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Orlando, Florida, USA, April 5-7, 1998.

Molecular epidemiology of vancomycin-resistant *Enterococcus faecium* strains in a large urban hospital over a 5 year period. 8th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Orlando, Florida, USA, April 5-7, 1998.

Air pollution in wound vicinity: comparison of two central ventilation ceiling systems for operating rooms in daily routine. 8th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Orlando, Florida, USA, April 5-7, 1998.

Catheter-related bacteremias caused by *Sphingomonas paucimobilis* and *Agrobacterium tumefaciens* in an ambulatory dialysis unit for children. 8th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Orlando, Florida, USA, April 5-7, 1998.

Handwashing compliance by health care workers: the impact of an education and patient awareness program and the introduction of a new hand disinfectant. 38th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, California, USA. September 24-27, 1998.

Molecular epidemiology of *Stenotrophomonas maltophilia* isolates in hematology/oncology patients. 50th Congress of the German Society of Hygiene and Microbiology (DGHM), Berlin, Germany, October 4-9, 1998.

Occurrence of vancomycin-resistant enterococci in hematology/oncology, cardiac transplant, and interdisciplinary ICUs in a German university clinic. 9th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, San Francisco, California, USA, April 18-20, 1999.

An outbreak of multiresistant *Serratia marcescens* in the urology department of a German hospital. 99th General Meeting of the American Society for Microbiology, Chicago, Illinois, USA, May 30-June 3, 1999.

The cloud phenomenon (CP): predictors for *Staphylococcus aureus* (SA) airborne dispersal associated with rhinovirus infection. 11th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Toronto, Canada, April 1-3, 2001.

Hatschi-gesundheit: sneezing *Staphylococcus aureus* (SA) into the air during a common cold. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, California, USA, September 27-30, 2002.

Airborne dispersal as a novel transmission route of coagulase-negative staphylococci (CoNS): interaction between CoNS and rhinovirus infection. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, California, USA, September 27-30, 2002.

Prevalence and risk factors for *Staphylococcus aureus* nasal carriage in a student community. 13th Annual Scientific Meeting of The Society for Healthcare Epidemiology of America, Arlington, Virginia, USA, April 5-8, 2003.

Cover up! The impact of scrubs, gowns, and masks on airborne dispersal of bacteria. 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington DC, USA, October 30 - November 2, 2004

ACCEPTED PRESENTATIONS AT NATIONAL/INTERNATIONAL MEETINGS:

Preventing the airborne spread of *Staphylococcus aureus* under a common cold: The effect of scrubs, gowns, and masks. 46th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, California, USA, September 27 - 30, 2006 accepted 06/2006

TEACHING PORTFOLIO

Wake Forest University School of Medicine, Winston-Salem, NC

Lecturer, Infection Control course for Infectious Disease fellows; lectures focusing on Infectious Disease Epidemiology, starting Fall 2005

Teaching Assistant, Introduction to Epidemiology course for students of the Master of Science in Clinical Epidemiology and Health Services Research Program; preparation of the course syllabus, lecturing/tutoring students, and grading of class projects, August 2005 – December 2005

Member/Advisor, Thesis committee of Master of Science in Clinical Epidemiology and Health Services Research Program, February 2005 - Present

Course Director, Introduction to Epidemiology course for laboratory personnel; organization of course and lecturing, August 2004 – December 2004

Examiner, Standardized Patient Assessment program for medical students; bi-annual Evaluation, March 2003 - Present

Medical School of Hanover, Microbiology and Infection Epidemiology, Lower Saxony, Germany

Lecturer, Infection Control and Hospital Epidemiology course for fellows, residents and attendings on surgical and medical ICUs; lectures focusing on ICU-specific Infection Control problems, November 1997 – December 1999

Lecturer, Infectious Disease Epidemiology course for Master of Public Health students; lectures focusing on Infectious Disease Epidemiology, November 1997 – December 1999

Lecturer, Microbiology course for medical students; lectures focusing on the microbiology of gram-positive bacteria and examination of students, November 1997 – December 1999

Medical School of Hanover, Surgery, Surgical ICUs, Lower Saxony, Germany

Lecturer, Infection Control and Hospital Epidemiology course for fellows, residents and attendings on surgical ICUs; lectures focusing on ICU-specific infection control issues, December 1994 – November 1995

Health State Department of Lower Saxony, Hanover, Germany

Lecturer, Training Program for Infection Control Practitioners and Hospital Epidemiologists for Infection Control Practitioners and Hospital Epidemiologists; lectures focusing on air-filtration systems in the hospital setting, November 1992 – November 1994 and December 1995 – April 1996

Supervisor, Medical Doctorate Program, supervision of three doctoral candidates, November 1992 – November 1994 and December 1995 – April 1996