Sadik A. Khuder, PhD.

EDUCATION AND TRAINING:

- B.D.S. General Dentistry, University of Baghdad, 1977
- M.P.H. Epidemiology, University of Alabama at Birmingham, 1982
- Ph.D. Biostatistics, University of Alabama in Birmingham, 1992

POST-DOCTORAL FELLOWSHIP

1992-1993 Department of Preventive Medicine and Community Health, University of Texas Medical Branch. Speciality: Epidemiology.

2002 Summer Institute in Statistical Genetics, North Carolina State University. Genomics and Bioinformatics courses.

2004 Summer Institute in Statistical Genetics, North Carolina State University. Statistical Genetics courses.

EMPLOYMENT:

1982-1986 Lecturer, Department of Preventive and Community Dentistry, University of Baghdad

1989-1990 Statistical analyst, Department of Biostatistics and Department of Medicine, University of Alabama at Birmingham.

1990-1992 Biostatistician, Dept. of Medicine, University of Alabama at Birmingham

1992-1993 Biostatistician, Cancer Center & Instructor, Dept. of Preventive Medicine and Community Health, University of Texas Medical Branch

1994-1998 Assistant Professor, Department of Medicine, Medical College of Ohio.

1997-1998 Assistant Professor, Department of Public Health, Medical College of Ohio.

1998-2003 Associate Professor, Department of Medicine and Department of Public Health, Medical College of Ohio.

2003-present Co-director of the Epidemiology program for the Northwestern Ohio Consortium of Public Health.

2004-present Professor, Department of Medicine and Department of Public Health, Medical College of Ohio.

NATIONAL AND INTERNATIONAL PROFESSIONAL SOCIETIES:

American Statistical Association

International Biometric Society

International Society for Clinical Biostatistics

International Association for the Study of Lung Cancer

American Society for Epidemiologic Research

American Public Health Association

The Society for Clinical Trials

RESEARCH INTEREST:

Cancer and Molecular Epidemiology, Occupational and Environmental health, Statistical modeling of cause-effect relations and Meta-analysis.

AWARDS AND COMMENDATIONS:

Richard Anderson Research Award / Southern Regional Council on Statistics 1992.

International Association for the Study of Lung Cancer / Grant for invited paper in the 9th World Conference on Lung Cancer - Japan, September 2000.

GRANTS

I. CURRENT FUNDED GRANTS

Community Based Program Evaluation Consultant Subcontract from University of Toledo- James Price PI)

14%

11/01/2002 --- 10/31/2005

Funding Agency: Ohio Tobacco Use Prevention and Control Foundation

\$16,364

The Caring-web: Web-based Support for Stroke Caregivers

Principal Investigator Linda Pierce

02/01/2002 - 12/31/2005

Funding Agency: NINR- National Institute of Nursing Research
Role in the project: Co-Investigator

\$184,000

Standardized Gene Expression Core Facility Development

Principal Investigator: James Willey

05/01/2002 -- 04/30/2007

Funding Agency: NCI – National Cancer Institute \$149,894 Role in the project: Statistician 10%

Testing a Functional Approach in Subacute Rehabilitation

Principal Investigator: David Nelson

02/01/2002 -- 01/31/2005

Funding Agency: National Institute of Child Health & Human Development \$ 50,000 Role in the project: Co-Investigator 3%

Shared Resources for Scientist Not at NCI Funded Cancer Centers

Principal Investigator: James Willey

05/01/2002 - - 04/30/2007

Funding Agency: NCI – National Cancer Institute \$196,878
Role in the project: Statistician 5%

A Technology-Enhanced, Multi-Institutional Master of Public Health Program

Principal Investigator: Bork, Christopher

06/01/2002 --- 12/31/2005

OBR - Ohio Board of Regents \$123,348 Role in the project: Co-Investigator 6%

Occupational Health Training Grant Principal Investigator: Michael Bisesi

07/01/2001 -- 06/30/2006

Funding Agency: National Institute for Occupational Safety and Health \$54,569

Role in the project: Preceptor

40%

Farm Family Total Noise Exposure Assessment

Principal Investigator: Sheryl Milz

03/01/2004 -- 02/28/2006

Funding Agency: National Institute for Occupational Safety and Health
Role in the project: Statistician

\$50,000

Lung Cancer Diagnostic Test Validation in FNA Specimens

Principal Investigator: James Willey

04/01/2004 -- 03/31/2009

Funding Agency: National Cancer Institute \$106,900 Role in the Project: Statistician 5%

JOURNAL PEER REVIEW

Served as ad hoc reviewer for

Addictive Behaviors
BMC Cancer
Journal of General Internal Medicine
Lung Cancer
Science of the Total Environment

Leukemia Research

BOOK REVIEW

Design and analysis of cluster randomization trials in health research. Authors: Allen Donner & Neil Klar. Published in International Society for Clinical Biostatistics News, no. 31, 2001.

MENTORING:

Served as the mentor (major advisor) for 8 students: Degree awarded: Master of Science

ADVISORY COMMITTEE:

Served on the Advisory Committee for 25 students.

TEACHING

CURRENT TEACHING ASSIGNMENT

A. SCHEDULED TEACHING ASSIGNMENT

Summer

PUBH603 Advanced Epidemiology

Course coordinator - Teaching effort: 100%

PUBH617 Molecular and Genomic Epidemiology Course coordinator -Teaching effort: 60%

INDI 534 Statistical Method I

Course Coordinator - Teaching effort: 100%

Fall

BIPG520/720 Statistical Method in Bioinformatics Course Coordinator- Teaching load 100%

PUBH611 Categorical Data Analysis

Course coordinator - Teaching Effort: 100%

PUBH600 Public Health Statistics

Teaching Effort: 20%

PUBH 612 Epidemiology of Infectious Diseases

Teaching Effort: 10%

Spring

PUBH601 Advanced Statistics

Course coordinator - Teaching Effort: 100%

PUBH601 Clinical Epidemiology

Course coordinator - Teaching Effort: 100%

PUBH601 Public Health Epidemiology

Teaching Effort: 20%

BIPG 640 Application of Bioinformatics, Proteomic and Genomics

Teaching Effort: 10%

B. UNSCHEDULED TEACHING ASSIGNMENT

Independent study in statistics Independent study in epidemiology Independent study in bioinformatics

C. SCHEDULED RESIDENT TEACHING ASSIGNMENT

Journal Club: Physical Medicine and Rehabilitation Statistics and Epidemiology: Orthopedic Surgery

Biostatistics: Cardiology

D. SEMINARS

Epidemiology of lung cancer	Medicine Grand Round	Oct 2000
NSAID for the prevention of breast cancer	Medicine Grand Round	Aug 2001
Data monitoring and safety	Medicine Research	Mar 2002

Microarrays in medical research	Medicine Grand Round	Nov 2	002
Microarrays for classification of cancer	Tumor Board	Jan 20	.003
Molecular Epidemiology	Medicine Grand Round	June 2	004
SNIPPING away at complex diseases	Medicine Grand Round	Nov 20	004

BIBLIOGRAPHY:

I. Article published in Scientific Journals

Cipriani D, Fox C, **Khuder S**, Boudreau N. (2005). Comparing rasch analyses probability estimates to sensitivity, specificity and likelihood ratios when examining the utility of medical diagnostic tests. J Appl Meas. 6:180-201.

Khuder SA, Herial NA, Mutgi AB, Federman DJ. (2005). Nonsteroidal antiinflammatory drug use and lung cancer: a metaanalysis. Chest. 127:748-54.

Werning JW, Downey NM, Brinker RA, **Khuder SA**, Davis WJ, Rubin AM, Elsamaloty HM. (2004). The impact of osteoporosis on patients with maxillofacial trauma. Arch Otolaryngol Head Neck Surg. 130:353-6.

Kennedy DJ, Colyer WR, Brewster PS, Ankenbrandt M, Burket MW, Nemeth AS, **Khuder SA**, Thomas WJ, Shapiro JI, Cooper CJ. (2003). Renal insufficiency as a predictor of adverse events and mortality after renal artery stent placement. Am J Kidney Dis. 42:926-35.

Fitzgerald K, Chakraborty J, Shah T, **Khuder S,** Duggan J.(2003). HIV/AIDS knowledge among female migrant farm workers in the midwest. J Immigr Health. 5:29-36.

Reddy BK, Kennedy DJ, Colyer WR, Burket MW, Thomas WJ, **Khuder SA**, Shapiro JI, Topp RV, Cooper CJ. (2003). Compliance with antihypertensive therapy after renal artery stenting. Biol Res Nurs. 5:37-46.

Mauro VF, Mauro LS, Kleshinski JF, **Khuder SA**, Wang Y, Erhardt PW. (2003). Impact of ginkgo biloba on the pharmacokinetics of digoxin. Am J Ther. 10:247-51.

Duggan J, **Khuder S**, Sinha N, Chakraborty J. (2003). Survey of physician attitudes toward HIV testing in pregnant women in Ohio. AIDS Patient Care STDS. 17:121-7.

Kleshinski JF, Crews C, Fry E, Stewart B, Reinhart C, Tolliver J, **Khuder S.** (2003). A survey of herbal product use in a dialysis population in Northwest Ohio. J Ren Nutr. 13:93-7.

Werning JW, Heard D, Pagano C, **Khuder S.** (2003). Elective management of the clinically negative neck by otolaryngologists in patients with oral tongue cancer. Arch Otolaryngol Head Neck Surg. 129:83-8.

Khuder SA, Peshimam AZ, Agraharam S. (2002). Environmental risk factors for rheumatoid arthritis. Rev Environ Health. 17:307-15.

Topp R, Woolley S, Hornyak J 3rd, **Khuder S**, Kahaleh B. (2002). The effect of dynamic versus isometric resistance training on pain and functioning among adults with osteoarthritis of the knee. Arch Phys Med Rehabil. 83:1187-95.

Curtin WM, Shehata BM, **Khuder SA**, Robinson HB, Brost BC. (2002). The feasibility of using histologic placental sections to predict newborn nucleated red blood cell counts. Obstet Gynecol. 100:305-10.

Crawford EL, Warner KA, **Khuder SA**, (2002). Zahorchak RJ, Willey JC. Multiplex standardized RT-PCR for expression analysis of many genes in small samples. Biochem Biophys Res Commun. 293:509-16.

Tietjen GE, Gottwald L, Al-Qasmi MM, Gunda P, **Khuder SA.** (2002). Migraine is associated with livedo reticularis: a prospective study. Headache. 42:263-7.

Rees MA, Butler AJ, Chavez-Cartaya G, Wight DG, Casey ND, Alexander G, **Khuder SA**, White DJ, Friend PJ. (2002). Prolonged function of extracorporeal hDAF transgenic pig livers perfused with human blood. Transplantation. 73:1194-202.

Werning JW, Preston TW, **Khuder S.** (2002). Physician specialty is associated with differences in the evaluation and management of acute bacterial rhinosinusitis. Arch Otolaryngol Head Neck Surg. 128:123-30.

Khuder SA, Mutgi AB, Nugent S. (2001). Smoking and breast cancer: a meta-analysis. Rev Environ Health. 16:253-61.

Crawford EL, Peters GJ, Noordhuis P, Rots MG, Vondracek M, Grafstrom RC, Lieuallen K, Lennon G, Zahorchak RJ, Georgeson MJ, Wali A, Lechner JF, Fan PS, Kahaleh MB, **Khuder SA**, Warner KA, Weaver DA, Willey JC. (2001). Reproducible gene expression measurement among multiple laboratories obtained in a blinded study using standardized RT (StaRT)-PCR. Mol Diagn. 6:217-25.

Khuder SA, Mutgi AB. (2001). Effect of smoking cessation on major histologic types of lung cancer. Chest. 120:1577-83.

Aryal BK, **Khuder SA**, Schaub EA. (2001). Meta-analysis of systemic sclerosis and exposure to solvents. Am J Ind Med. 40:271-4.

Tietjen GE, Al-Qasmi MM, Athanas K, Dafer RM, **Khuder SA.** (2001). Increased von Willebrand factor in migraine. Neurology. 57:334-6.

Priyadarshi A, **Khuder SA**, Schaub EA, Priyadarshi SS. (2001). Environmental risk factors and Parkinson's disease: a metaanalysis. Environ Res. 86:122-7.

Khuder SA, Mutgi AB. (2001). Breast cancer and NSAID use: a meta-analysis. Br J Cancer. 84:1188-92.

Duggan J, Peterson WS, Schutz M, **Khuder S,** Charkraborty J. (2001). Use of complementary and alternative therapies in HIV-infected patients. AIDS Patient Care STDS. 15:159-67.

McGrady A, Kern-Buell C, Bush E, **Khuder S**, Grubb BP. (2001). Psychological and physiological factors associated with tilt table testing for neurally mediated syncopal syndromes. Pacing Clin Electrophysiol. 24:296-301.

Kassa H, Harrington B, Bisesi M, **Khuder S.** (2001). Comparisons of microbiological evaluations of selected kitchen areas with visual inspections for preventing potential risk of foodborne outbreaks in food service operations. J Food Prot. 64:509-13.

Khuder SA. (2001). Effect of cigarette smoking on major histological types of lung cancer: a meta-analysis. Lung Cancer. 31:139-48.

Al-Hashimi I, **Khuder S**, Haghighat N, Zipp M. (2001). Frequency and predictive value of the clinical manifestations in Sjogren's syndrome. J Oral Pathol Med. 30:1-6.

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Topp R, Woolley S, **Khuder S**, Hornyak J, Bruss A. (2000). Predictors of four functional tasks in patients with osteoarthritis of the knee. Orthop Nurs. 19:49-58.

Kinn S, **Khuder SA**, Bisesi MS, Woolley S. (2000). Evaluation of safety orientation and training programs for reducing injuries in the plumbing and pipefitting industry. J Occup Environ Med. 42:1142-7.

Birk TJ, McGrady A, MacArthur RD, **Khuder S**. (2000). The effects of massage therapy alone and in combination with other complementary therapies on immune system measures and quality of life in human immunodeficiency virus. J Altern Complement Med. 6:405-14.

Priyadarshi A, **Khuder SA**, Schaub EA, Shrivastava S. A meta-analysis of Parkinson's disease and exposure to pesticides. (2000). Neurotoxicology. 21:435-40.

Mathew P, Talbut DC, Frogameni A, Singer D, Chrissos M, **Khuder S**, Ohler S, Farley D, Michael C, Robinson MG. (2000). Isotopic synovectomy with P-32 in paediatric patients with haemophilia. Haemophilia. 6:547-55.

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Bose KK, Chakraborty J, **Khuder S**, Smith-Mensah WH, Robinson J. (2000). Lysyl oxidase activity in the cells of flexor retinaculum of individuals with carpal tunnel syndrome. J Occup Environ Med. 42:582-7.

Crawford EL, **Khuder SA**, Durham SJ, Frampton M, Utell M, Thilly WG, Weaver DA, Ferencak WJ, Jennings CA, Hammersley JR, Olson DA, Willey JC. (2000). Normal bronchial epithelial cell expression of glutathione transferase P1, glutathione transferase M3, and glutathione peroxidase is low in subjects with bronchogenic carcinoma. Cancer Res 60:1609-18.

Kasa H, Bisesi MS, **Khuder SA**, Park PC. (2000). Assessment of a lead management program for inner-city children. J Environ Health 62:15-20.

Below AA, Chakraborty J, **Khuder SH**, Haselhuhn GD. (1999). Evaluation of urinary Tamm-Horsfall protein in post-menopausal diabetic women. J Diabetes Complications. 13:204-10.

Khuder SA, Dayal HH, Mutgi AB. (1999). Age at smoking onset and its effect on smoking cessation. Addict Behav 24:673-677.

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Below AA, Chakraborty J, **Khuder SA**, Haselhuhn GD. (1999). Evaluation of urinary Tamm-Horsfall protein in post-menopausal diabetic women. J Diabetes Complications 13:204-210.

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Khuder SA, Schaub E, Keller-Byrne J. (1998). Meta-analyses of Non-Hodgkin's lymphoma and farming. Scand J Work Environ Health 24:255-61.

Crawford EL, Weaver DA, DeMuth JP, Jackson CM, **Khuder SA**, Frampton MW, Utell MJ, Thilly WG, Willey JC. (1998). Measurement of cytochrome P450 2A6 and 2E1 gene expression in primary human bronchial epithelial cells. Carcinogenesis 19:1867-1871.

Khuder SA, Mutgi AB, Schaub E. (1998). Meta-analyses of brain cancer and farming. Am J Ind Med 34:252-60.

Willey JC, Crawford EL Jackson CM, Weaver DA, Hoban JC, **Khuder SA**, DeMuth JP. (1998). The gene expression index c-myc xE2F-1/p21 is highly predictive of malignant phenotype in human bronchial epithelial cell. Am J Respir Cell Mol Biol 19:18-24.

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Khuder SA, Arthur T, Bisesi MS, Schaub EA (1998). Prevalence of infectious diseases and associated symptoms in wastewater treatment workers. Am J Ind Med 33:571-577.

Akpunonu BE, Mutgi AB, Lee L, **Khuder S**, Federman DJ, Roberts C (1998): Can a clinical score aid in early diagnosis and treatment of various stroke syndrome? Am J Med Science 315:194-198.

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Dobelbower RR, Merrick HW, **Khuder S**, Battle JA, Herron LM, Pawlicki T (1997): Adjuvant radiation therapy for pancreatic cancer: A 15-year experience. Int J Radiol Oncol Biol Phys 39:31-37.

Keller-Byrne J, **Khuder S**, Schaub E (1997): Meta analysis of prostate cancer and farming. Am J Ind Med 31:580-586.

Matloub YH, Smith C, Bostrom B, Koerper MA, O'Leary M, **Khuder S**, Smithson WA, Nickerson HJ, Silberman T, Hilden J, Moertel CL, Months S, Monteleon P, Ramsay N (1997): One course versus two courses of antithymocyte globulin for the treatment of severe aplastic anemia in children. Am J Ped Hematology-Oncology 19:110-114.

Akpunonu BE, Mutgi A B, Roberts C, **Khuder SA**, Federman DJ, Lee L (1997): Modified barium swallow does not affect how often PEGs are placed after stroke. J Clin Gastroenterol 24:74-8.

Keller-Byrne J, **Khuder S**, Schaub E, McAfee O (1997): A Meta analysis of Non_Hodgkin's lymphoma among farmers in the central United States. Am J Ind Med 31:442-444.

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Milby J, Sims MK, **Khuder S**, Schumacher JE, Huggins N, McLellan AT, Woody G. Haas N. (1996). Psychiatric comorbidity: Prevalence in methadone maintenance treatment. Am. J. Drug Alcohol Abuse. 22:95-107.

Donabedian H, O'Donnell E, Drill C, Lipton LM, **Khuder S**, Burnham JC. (1995). Prevention of subsequent urinary tract infections in women by the use of anti-adherence antibiotics. J. Antimicrob Chemother. 35:409-420.

Keller-Byrne J, **Khuder S**, Schaub E. (1995). Meta analysis of leukemia and farming. Environmental Research. 71: 1-10.

Dayal HH, **Khuder S**, Sharrar R, Trieff N. (1994). Passive smoking in obstructive respiratory diseases in an industrialized urban population. Environmental Research. 65:161-171.

Milby JB, Williams V, Hall JN, **Khuder S**, McGill T, Wooten V. (1993). Effectiveness of combined triazolam-behavioral therapy for treatment of persistent Sleep onset insomnia. Am. J. Psychiatry, 150, 1259-1260.

Yagot K, Nazhat NY, **Kuder SA**. (1990). Prolonged nursing-habit caries index. J Int Assoc Dent Child 20:8-10.

Yagot KH, Nazhat NY, **Kuder SA**. (1988). Traumatic dental injuries in nursery schoolchildren. Community Dent Oral Epidemiol 16:292-293.