

CURRICULUM VITAE

M. Haitham Bakir, M.D., FCCP, FAASM
Diplomate, American Board of Sleep Medicine

PERSONAL INFORMATION

Work Address	Postal address	Southern Illinois University School of Medicine Division of Pulmonary and Critical Care Medicine P.O. Box 19636 Springfield, IL 62794-9636
	Physical Address	Southern Illinois University School of Medicine Division of Pulmonary and Critical Care Medicine 701 North First Street, Room D434 Springfield, Illinois 62702
	Clinic Address	Southern Illinois University School of Medicine Pulmonary Medicine Clinic 751 North Rutledge Street Springfield, IL 62702

EDUCATION

1981-87	M.D.	University of Damascus Medical School Damascus, Syria
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POST GRADUATE TRAINING

1987-88	Internship Internal Medicine	Moussat University Damascus, Syria
1989		ECFMG, National Board Medical Exam and FLEX
1989-90	Externship Critical Care and Pulmonary Medicine	Atlantic City Medical Center New Jersey
1990-93	Residency Internal Medicine	Wayne State University Detroit, MI
1993-1995	Fellowship Pulmonary Medicine	Southern Illinois University School of Medicine Springfield, IL

PROFESSIONAL BACKGROUND

Medical Licensure	State of Illinois State of Michigan
Board Certification	American Board of Internal Medicine (ABIM) Board Certified, 1993 ABIM Subspecialty Boards in Pulmonary Medicine Board Certified, 1997 American Board of Sleep Medicine Diplomate, Board Certification, 2004
Clinical Appointments	Culbertson Memorial Hospital, Rushville, IL General Internal Medicine and Pulmonary Medicine 1995-present Chief of Staff Culbertson Memorial Hospital, Rushville, IL 1995-98 Culbertson Memorial Hospital, Rushville, IL Associate Staff 1995-present St. Francis Hospital, Peoria, IL Methodist Hospital, Peoria, IL Proctor Hospital, Peoria, IL Pekin Hospital, Pekin, IL Pulmonary Medicine and Critical Care Medicine 1998-99 Memorial Medical Center, Springfield, IL Associate Staff 1999-present St. John's Hospital, Springfield, IL Associate Staff 1999-present Physician & Surgeon member 1999-present SIU/Memorial Medical Center Sleep Disorders Center Co-Director 2004-present

Academic Appointments

Associate Professor of Pulmonary / Internal
Medicine
Division of Pulmonary and Critical Care Medicine
Department of Internal Medicine
SIU School of Medicine, Springfield, IL
1999-present

HONORS

1987	Certificate of Appreciation, 3rd in medical school class
1987	Institute prize for best medical student in clinical medicine
1999	Certificate of Appreciation, for education in family medicine residency program.
2000	Certificate of Appreciation, dedication and service as clinical preceptor for the sophomore problem-based learning curriculum.
2000	Fellowship award, American college of chest physicians.
2005	Certificate of Appreciation, Syrian American Medical Society

PROFESSIONAL ASSOCIATIONS

American College of Chest Physicians
American Academy of Sleep Medicine
American Medical Association
American Thoracic Society
Illinois State Medical Society

COMMITTEE WORK

SIU School of Medicine

2001 – 2002	International Relation Advisory Committee
2002 - 2003	American Lung Association Medical advisor.
2004 – Present	Clinical Competency Examination Committee

MEDICAL SCHOOL GRADUATE TEACHING

Sequence III

1999 - Present	Deliver Seminars in Pulmonary Medicine, Medicine Clerkship, quarterly.
1999 - Present	Mentor, Medicine Clerkship
1999 - Present	Faculty, Pulmonary Rotation, Medicine Clerkship
1999 - Present	Faculty, Intensive Care Rotation, Medicine Clerkship
1999 - Present	Attending Physician, Ambulatory Pulmonary, Sleep, and Critical Care Medicine Clerkship

Sequence IV

1999 - Present	Faculty, Pulmonary Medicine Elective
1999 - Present	Faculty, Intensive Care Elective, Sleep Medicine
1999 - Present	Faculty, Pulmonary and Intensive Care Medicine Rotations
1999 – Present	Faculty, Sleep Disorders

ADMINISTRATION

Medical School:

- Medical school participating in curriculum 2000
- Monthly pulmonary divisional meetings, oversee of pulmonary curriculum for MSIII, and MSIV rotating in pulmonary service.
- Interviewer for SIU School of Medicine Student Admission Committee
- Participant in Clinical Competency Examination Committee since 2004

Internal Medicine Residency and Pulmonary Fellowship:

- Oversee and organize pulmonary curriculum for internal medicine residents rotating in pulmonary consult service.
- Periodic meet in pulmonary division with other faculties to organize pulmonary critical care curriculum for fellows, rotating residents and students.
- Organize in-service examinations for senior pulmonary fellows: selecting, scoring and reviewing questions for evaluation and education
- Write and review tests for rotating internal medicine residents given on a monthly basis to help focus reading and review selected pulmonary critical care topics.
- Participate in faculty and residency retreats yearly. 2000-2005.
- Assist in recruiting research and clinical faculty for pulmonary critical care division, as well as SIU Prairie Cardiology. Most recent: Drs. Ko, White, Guntupalli and for cardiology – Drs. Shakoore and Issa.
- Interview candidates for internal medicine residency and pulmonary fellowship, complete evaluations, and rank candidates for the fellowship match list.

Memorial Medical Center:

- Coordinator for pulmonary rehabilitation program, Better Breathers Club in Memorial Medical Center.
- Asthma education program coordinator, SIU-Memorial Medical Center.
- Member, Nutrition Support Team.
- Co-Director for Memorial Medical Center Sleep Laboratory.

TEACHING

Medical Students

1999 – Present - Member of Doctoring Days presenting Introduction to Clinical Medicine in both pulmonary medicine and general internal medicine for 2nd year students with didactic on pulmonary history and physical exam completed twice a year.

1999 – Present - Mentoring to 3rd year medical students. As a mentor helping as advocacy for the student, education, and evaluation. This includes weekly meetings in various settings: bedside rounds, clinic, office meetings reviewing x-rays, pulmonary function tests and various topics. I mentor four students per year.

1999 – Present - Seminars on asthma, chronic obstructive pulmonary disease (COPD), and pulmonary function tests are given all clerkship, four times a year.
 1999 – Present - Mentoring 2nd, 3rd, and 4th year medical students during pulmonary and critical care medicine rotations.
 1999 – Present - Mentoring students rotating in pulmonary medicine service in outpatient SIU clinic with bedside teaching.
 2000: Review courses and writing final exam for respiratory students.
 2003 – Present - Organizing, and updating web-based review topics in pulmonary and critical care supplemented with questions and cases.
 2004 – Present - Evaluator, Clinical Competency Examination Committee

Residents

1999 – Present - Attending physician: teaching rounds at Memorial Medical Center and St. John’s Hospital in pulmonary, critical care and sleep medicine.
 1999 – Present - Attending physician – Outpatient experience at SIU clinic in pulmonary and sleep clinic
 1999 – Present:-Grand Rounds presentations and organizing vignette of selected cases with residents.
 1999 – Present:-Teaching workshops monthly in St. John’s Hospital conferences about blood gases, ventilation management and weaning procedures in ICU
 1999 – Present:-Emergency lectures on acute care management of asthma, COPD presented yearly to 1st year residents.
 1999 – Present:-Maintaining up-to-date collection of review papers and clinical cases for the residents and students rotating in pulmonary and critical care services.
 1999 – Present:-Didactic board review courses presented yearly to senior residents with interactive cases and questions:
 -asthma
 -chronic obstructive pulmonary disease
 -pulmonary function testing
 -sarcoidosis
 -interstitial lung disease
 -lung neoplasm

Noon conference presentations on various pulmonary topics

-primary pulmonary hypertension	May 2000
-sarcoidosis	October 2000
-obstructive lung disease	November 2001
-pulmonary function tests	May 2002
-lung neoplasm	May 2004
-obstructive lung disease	July 2005

1999 – Present:-Seminars to Family Medicine residents presented yearly in the spring – review pulmonary topics
 2003 – Present:-Web-based review for pulmonary, critical care and sleep topics and cases to assist in teaching anytime.

Post-Doctoral Fellows

1999 -- Present - Attending physician for inpatient fellows teaching rounds in Memorial Medical Center and St. John’s Hospital

1999 -- Present - Attending physician for SIU teaching pulmonary and sleep clinic with continuity fellow clinic and fellows rotating on consult service.

1999 – Present - Maintaining up-to-date collection of review papers and clinical cases for fellows in pulmonary, critical care and sleep medicine.

1999 – Present - Basic science review lectures series with pulmonary fellows. Review of pulmonary physiology and pathophysiology yearly.

Multidisciplinary conferences for pulmonary fellows, and rotating medical residents in pulmonary medicine:

- 1999 – Present:- monthly Critical Care Conference
- 1999 – 2003 - monthly Radiology/Pulmonary Conference
- 1999 – Present:- monthly Pathology Conference
- 2003 – Present:- weekly Tumor Board/SIU Cancer Institute
- 1999 – Present:- monthly Infectious Disease/Pulmonary Conference
- 2000 – Present:- monthly City-Wide Chest Conference

Supervising fellows for interpretation of pulmonary function tests and sleep studies.

Supervising and skills improving technique and procedures for fellows in pulmonary critical care services.

Research mentoring post-doctoral fellows and case report presentation.

-Wael Eid 2000-2002

-Fadi Layous 2001-2003

-M. Omar Shamma 2003-2005

-Ahmad Agha 2003-2005

Faculty

Presenter, Department of Medicine Grand Round special presentations and vignettes

Coordinator and presenter for Critical Care – St. John's Hospital

Presenter, Pulmonary Critical Care Journal Club - monthly meetings.

Pulmonary Critical Care Department: periodic presentations in journal club, and monthly research meetings.

Regular presenter at monthly multidisciplinary City-Wide Chest Conference with non-SIU pulmonologists, radiologists, thoracic surgeons, and pathologists.

Pulmonary Division: PET scan and lung cancer, diagnosis, staging, and follow-up 5/2000.

Pulmonary Division: GOLD guidelines of COPD treatments 12/ 2000

Pulmonary Division: New approach of idiopathic pulmonary fibrosis treatment 6/2003

GRAND ROUND PRESENTATIONS

- Chronic Obstructive Lung Disease. Patho-physiology Diagnosis and Management. 2000
- HIV and Pulmonary Hypertension. Vignette with Anita Gandhi. 2000
- Severe Hypophosphatemia Causing Multi-organ Failure. Vignette with Dr. Morales. 2001
- Severe Hypoxemia, Congenital Disease (PFO) 78-year old male. Vignette with Gordon. 2001
- Sarcoidosis, Acute Hypercalcemia and Renal Failure. A. Gandhi. 2001
- Sudden Onset of Weakness and Speech Difficulty. Vignette with Dr. Kallookulangara. 2004

INVITED LECTURES, PRESENTATIONS, RESEARCH SEMINARS: national, regional, and local:

National

- Levels of human beta defensin in burned and uninjured lung. ACCP, Chest Meeting. Philadelphia 2001
- Association of (Infliximab) tumor necrosis factor alpha-neutralizing agent and paradoxical worsening of tuberculosis. ACCP, Chest 2002
- Update of asthma management. SAMS (Syrian-American Medical Society) 2005
- Asthma between the East and the West. SAMS 2005 Damascus
- Ventilator associated pneumonia. SAMS 2005

Regional

- Asthma diagnosis and management. Culbertson Memorial Hospital Rushville, IL to introduce SIU service to Rushville community. October 1999
- Management of COPD (introducing new GOLD Guideline). Culbertson Memorial Hospital, Rushville IL February 2000
- New advances in the treatment of COPD. Passavant Hospital, Jacksonville, IL. September 2000
- New concepts in the treatment of asthma. Peoria, IL. October 2001
- Bronchodilators in asthma and COPD. Culbertson Memorial Hospital, Rushville, IL. Dec. 2001
- COPD - diagnosis and treatment. Grand Rounds, Urbana, IL. March 2003
- Heart disease and hypertension in OSA – Update sleep heart health study SHHS. American Lung Association Meeting, Carterville, IL. May 2005
- Asthma for family. Logan County Health Department. Lincoln, IL. May 2005
- Overview of sleep apnea to primary care physicians. Culbertson Memorial Hospital, Rushville, IL. June 2005

Local

- Management of COPD (new guideline). Memorial Medical Center Respiratory Therapy Department. December 2000
- Pulmonary function tests (principals and interpretations). SIU Center of Family Medicine. June 2000
- Obstructive lung diseases overview. SIU General Internal Medicine. August 2001
- Pulmonary function testing. SIU Center of Family Medicine. September 2001
- Interstitial lung disease for primary care physicians. SIU Center of Family Medicine. September 2001
- Primary pulmonary hypertension. Noon Conference. April 2002
- Obstructive lung diseases. Internal Medicine Clerkship. March 2002, June 2002, September 2002, December 2002
- Lung neoplasmas, diagnosis and management. Noon Conference. May 2002
- Pulmonary function tests. Applications for Internal Medicine residents. June 2002
- Obstructive lung disease. Management in emergency room. August 2002

- What does shortness of breath mean? Memorial Medical Center Better Breathers Club. September.2002
- Race against asthma - role of spirometry. Capital Community Health Center. September 2002.
- Obstructive lung disease (new guidelines). General Internal Medicine. February 2003
- Sarcoidosis, diagnosis and management. Noon Conference. February 2003
- Obstructive lung disease. Medicine Clerkship. March 2003, September 2003, November 2003.
- Lung neoplasms. General Internal Medicine. April 2003
- COPD,and asthma management. General Internal Medicine residents. August 2003
- Pulmonary function tests. Family Medicine residents. September 2003
- Bronchodilators for asthma and COPD. Memorial Medical Center Better Breathers Club. October 2003
- Obstructive lung diseases. Medicine Clerkship. March 2004. June 2004, November 2004
- MRSA infections, multidisciplinary approach. Primary care physicians. Springfield, IL May 2004
- COPD – Patient management with improved quality office. Primary care physician, Respiratory Therapy Department. May 2004
- Lung neoplasms. General Internal Medicine residents. May 2004
- New approaches in managing idiopathic pulmonary fibrosis. SIU Pulmonary Division. June 2004
- Diagnosis and management of asthma in the adult patient. Primary care physician, Respiratory Therapy Department. August 2004
- Obstructive Lung disease. Medicine Clerkship. March 2005, June 2005
- Obstructive sleep apnea and heart disease. Sleep Medicine Seminar. Memorial Medical Center. July 2005
- Obstructive lung disease. General Internal Medicine residents. July 2005

RESEARCH PROJECTS AND FUNDING

Co-Investigator, **M.H Bakir**, MD: “A Prospective, Multicenter Study of the Anemia of Critical Illness and Transfusion in the Critically Ill Patient (Protocol PR00-15-010)”. Principal Investigator: Elamin M. Elamin, MD; Funding: Ortho Biotech, Inc.; 2000; \$4,000

Co-Investigator, **M.H Bakir**, MD: "A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Group Study to Evaluate the Safety and Efficacy of 12 Weeks of 2 Oral Doses (200 mg and 400 mg Once Daily) of PROVIGIL® (Modafinil) as Treatment for Adults with Excessive Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypopnea Syndrome Followed by a 12-Month Open-Label Extension; Study No. C1538a/303/US-UK"; Principal Investigator: Joseph Q. Henkle, M.D; Funding: Cephalon Corporation; 2000; \$12,312.50 per patient.

Co-Investigator, **M.H Bakir**, MD: "A Randomized, Double-Blind, Placebo-Controlled, Parallel Study of the Efficacy and Safety of (S)-Zopiclone in the Treatment of Adult Subjects with Primary Insomnia Followed by Optional Open-Label Chronic Dosing for up to One Year, Version 3.0, dated 28 February 2001; Study No. 190-046"; Principal Investigator: Joseph Q. Henkle, M.D.; Funding: Sepracor, Incorporated; 2001; \$12,355 per patient.

Principal Investigator, **M.H Bakir**, MD: “Actimmune Safe and Appropriate Use Program (ASAP®) Registry”. Funding: InterMune, Inc.; 2002; \$3,200.

Co-Investigator, **M.H Bakir**, MD: “A Double Blind, Placebo Controlled, Parallel Multi-Center Study On Extended VTE Prophylaxis In Acutely Ill Medical Patients With Prolonged Immobilization Protocol XRP4563C/3501 (“EXCLAIM”); Principal Investigator: Elamin M. Elamin, MD; Funding: Aventis; 2002; \$42,880.

Co-Investigator, **M.H Bakir**, MD: “A Comparison of Ipratropium Bromide/Salbutamol Delivered by the Respimat® Inhaler to Ipratropium Bromide Respimat®, COMBIVENT® Inhalation Aerosol and Placebo of each Formulation in a 12-week, Double-Blind, Safety and Efficacy Study in Adults with Chronic Obstructive Pulmonary Disease.” (Protocol No. 1012.46); Principal Investigator: Joseph Q. Henkle, M.D.; Funding: Boehringer Ingelheim Pharmaceuticals, Inc.: 2003; \$10,000 per patient.

Co-Investigator, **M.H Bakir**, MD: “Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Early Stage Severe Sepsis (Protocol F1K-MC-EVCL) (“ADDRESS”); Principal Investigator: Elamin M. Elamin, MD; Funding: Eli Lilly and Company; 2003; \$37,739.

Co-Investigator, **M.H Bakir**, MD: “Ketamine vs. Fentanyl: Effects of Hemodynamics and Length of Stay in the ICU”; Principal Investigator: Elamin M. Elamin, MD; Funding: American Lung Association of Illinois; 2003; \$25,000.

CO-investigator, **M.H Bakir**, MD: Intracellular biofilm: a survival strategy for pseudomonas aeruginosa in the lungs of patients with cystic fibrosis: Principal Investigator: Nancy khardori, MD, PHD; 2004; \$38,500

Co-Investigator, **M.H Bakir**, MD: “Evaluation of the Long-Term Efficacy and Safety of Zolpidem-MR 12.5-mg Compared to Placebo, when Both Are Administered Over a Long-Term Period “as Needed”, in Patients with Chronic Primary Insomnia. (A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter, Phase IIIb Clinical Study).” (LTE5407: ZOLONG); Principal Investigator: Joseph Q. Henkle, MD; Funding: Sanofi-Aventis, Inc.; 2004

Co-Investigator, **M.H Bakir**, MD. “An Epidemiologic Study of Xolair® (Omalizumab): Evaluating Clinical Effectiveness and Long-Term Safety in Patients with Moderate to Severe Asthma.” (Protocol Q2948g “EXCELS”) Funding: Joseph Q..Henkle, MD; Genentech, Inc., 2004

Co-Investigator, **M.H Bakir**, MD: “A Randomized, Double-Blind, Parallel-Group, 52-week Study to Compare the Effect of the Fluticasone Propionate/Salmeterol DISKUS Combination Product 250/50mcg BID with Salmeterol DISKUS 50mcg BID on the Annual Rate of Moderate/Severe Exacerbations in Subjects with Chronic Obstructive Pulmonary Disease (COPD)”. (Protocol SCO100250;) Principal Investigator: Joseph Q. Henkle, MD; Funding: GlaxoSmithKline, 2005

Co-Investigator, **M.H Bakir**, MD: “A Phase 3, Randomized, Double-Blind, Parallel-Group, Multinational Trial of Intravenous Telavancin Versus Vancomycin for Treatment of Hospital-Acquired Pneumonia with a Focus on Patients with Infections Due to Methicillin-

Resistant *Staphylococcus aureus*". (Protocol 05-61), Principal Investigator: Janak Koirala, MD, MPH; Funding: Omnicare Clinical Research Inc., 2005

Co-Investigator, **M.H Bakir**, MD: "A randomized, double-blind, placebo-controlled, 6-week, cross-over study to examine the effects of tiotropium (Spiriva[®] HandiHaler[®], 18 µg once daily) on lung dynamic hyperinflation and physical exercise endurance in patients with early stage Chronic Obstructive Pulmonary Disease (COPD) 10 December 2009" (Protocol 205.440); Principal Investigator: Joseph Q. Henkle, MD; Funding: Boehringer Ingelheim Pharmaceuticals, Inc., 2010

PUBLICATIONS

Peer- reviewed Manuscripts:

- Standley PR, **Bakir MH**, and Sowers J. 1993. Vascular insulin abnormalities, hypertension, and accelerated atherosclerosis. *American Journal of Kidney*, 21(6 Suppl 3):39-46.
- Lawyer C, Henkle J, and **Bakir H**. 1994. Nasal carriage of staphylococcal infection in Wegener granulomatosis. *Ann Intern Med*, 121(1):74-75.
- Lawyer C, **Bakir MH**, Eagleton LE, and Watabe K. 1996. Effect of synthetic forms of tracheal antimicrobial peptide on respiratory pathogens. *Journal of Antimicrobial Chemotherapy*, 37, 599-604.
- Lawyer C, **Bakir H**, Eagleton L, Mashimo T, and Watabe K. 1996. A synthetic form of tracheal antimicrobial peptide has both bactericidal and antifungal activities. *Drug Des Discov*, 14(3):171-178.
- Bakir MH**, Song Y, Ganz T, Milner SM, and Smith CE. 2001. Human β -defensin 2 levels in burned and uninjured lung. *Chest*, 120:4 (suppl), 168S.
- Milner SM, Cole A, Ortega MR, **Bakir MH**, Gulati S, Bhat S, Ganz T. 2003. Inducibility of HBD-2 in acute burns and chronic conditions of the lung. *Burns*, 29(6): 553-555.
- Kallookulangara M, **Bakir MH**. 2004. Sudden onset of weakness and speech difficulty. *Journal of Respiratory Diseases*, 25(4): 175-178.

Abstracts

- Bakir MH**, Eagleton LE, and Hopkins-Price P. 1993. Histoplasmosis in cystic fibrosis patients. *American Journal of Respiratory & Critical Care Medicine*, 149:4 (part 2), A666.
- Lawyer C, Henkle J, and **Bakir H**. 1994. Nasal carriage of staphylococcal infection in Wegener granulomatosis. *Ann Intern Med*, 121(1):74-75.
- Bakir MH**, Lawyer CH; and Eagleton LE. 1995. Discordant responses to beta agonist post methacholine. *American Journal of Respiratory & Critical Care Medicine*, 151:4 (part 2), A273.
- Lawyer C, Pai S, Watabe K, and **Bakir MH**. 1996. Effect of synthetic tracheal antimicrobial peptide on pseudomonas aeruginosa. *American Journal of Respiratory & Critical Care Medicine*, 153:4 (part 2), A704.
- Hopkins-Price P, Lawyer C, **Bakir MH**, and Despot J. 1996. Can resting pulmonary function tests predict maximal oxygen uptake in patients with dyspnea? *American Journal of Respiratory & Critical Care Medicine*, 153:4 (part 2), A655.

-Layous F, Henkle J, **Bakir H**, Sood A. 2002. Association of (Infliximab) tumor necrosis factor alpha-neutralizing agent and paradoxical worsening of tuberculosis. *Chest*, 122 (4), 244S (Abstract).

Case reports:

-**Bakir, MH**, Khan J, Mukerji B. *Low anti-neutrophilic cytoplasmic antibodies (ANCA) in pulmonary histoplasmosis*. American College of Chest Physician. 2001

-**Bakir MH**, Morales JE, Henkle JQ. *Severe hypophosphatemia causing multi-organ and respiratory failure*. American College of Chest Physician. 2001

-**Bakir MH**, Song Y, Ganz T, Milner S. *Human Beta-Defensin two levels in burned and uninjured lung*. American College of Chest Physician – Philadelphia PA 2002

-**Bakir MH**, R Gordon. *Severe hypoxia in 78 year-old male*. American College of Chest Physician. 2003

Revised April 2010