

CURRICULUM VITAE
Edward J. Bernacki, M.D., M.P.H.

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February 2012

DEMOGRAPHIC INFORMATION

Current Appointment:

Associate Professor and Director, Occupational Medicine, Johns Hopkins University School of Medicine
Executive Director, Health, Safety and Environment - The Johns Hopkins University

Personal Data:

Business Address

Johns Hopkins University
Billings Administration 131
600 N. Wolfe Street
Baltimore, MD 21287-1631
Phone: (410) 955-9213
FAX: (410) 614-9981
E-Mail: bernacki@jhmi.edu

Education and Training

1963	BS	Fairfield University
1967	MD	University of Medicine and Dentistry of New Jersey, New Jersey Medical School
1968	Internship	Malcolm Grow USAF Hospital
1971	Residency	Assistant Resident Anesthesia, Yale University, School of Medicine
1973	Residency	Preventive Medicine, Yale University, School of Public Health
1973	MPH	Yale University School of Public Health

Professional Experience

1968-1970	Chief of Flight and Occupational Medicine, McClellan A.F.B., Sacramento, California
1973-1977	Medical Director, The Torrington Company, Torrington, Connecticut
1977-1981	Corporate Medical Director, United Technologies Corporation, Hartford, Connecticut
1981-1991	Vice President of Health, Safety and Environment, Tenneco, Inc., Houston, TX
1991	Chairman, Department of Occupational Medicine, Kelsey-Seybold Clinic, P.A., Houston, TX
1991-present	Executive Director, Health, Safety and Environment, Johns Hopkins University
1994-present	Director, Division of Occupational Medicine, Johns Hopkins University School of Medicine, Baltimore, MD

Academic Appointments

1976-1981	Assistant Clinical Professor of Occupational Medicine Yale University School of Medicine, New Haven, Connecticut
1981-1991	Professor of Occupational Medicine University of Texas, School of Public Health, Houston Texas
1991-present	Associate Professor of Medicine, Department of Medicine, School of Medicine, Johns Hopkins University
1992-present	Associate Professor of Environmental Health Sciences, School of Hygiene and Public Health, Johns Hopkins University

RESEARCH ACTIVITIES

Publications

Peer-Reviewed Scientific Articles (Non-Program Building Articles); *Corresponding Author

1. ***Bernacki EJ**. "Uses of the Epidemiologic Method in Occupational Medicine," *Connecticut Med.* 1975;36:177-118.
2. *Pearson DA, **Bernacki EJ**, Meigs JW. "An Emergency Care Facility; Program Characteristics and Patient Attributes," *J Am Coll Emergency Physicians.* 1976; 5:174-179.
3. ***Bernacki EJ**. "Accident Proneness or Accident Liability: Which Model for Industry?" *Connecticut Med.* 1976; 40:(8):535-538.
4. ***Bernacki EJ**, Parsons GE, Roy BR, Mikac-Devic M, Kennedy CO, Sunderman FW Jr. "Urine Nickel Concentrations in Nickel Exposed Workers," *Ann Clin Lab Sci.* 1978;8:184-189.
5. ***Bernacki EJ**, Parsons GE, Sunderman FW Jr. "An Investigation of the Possible Association of Nickel Exposure to Lung Cancer Mortality in Workers at an Aircraft Engine Manufacturing Facility," *Ann Clin Lab Sci.* 1978;8:190-194.
6. ***Bernacki EJ**, Zygowicz E, Sunderman FW Jr. "Fluctuations of Nickel Concentrations in Urine of Electroplating Workers," *Ann Clin Lab Sci.* 1980;10:33-39.
7. ***Bernacki EJ**, Martin JA. "Workers' Compensation for Degenerative Diseases," *J Occup Med.* 1981; 23:227-230, 1981.
8. Hogan JC, ***Bernacki EJ**. "Developing Job-Related Pre-Placement Medical Examinations," *J Occup Med.* 1981; 23:469-476.
9. Cannon LJ, ***Bernacki EJ**, Walter SD. "Personal and Occupational Factors Associated with Carpal Tunnel Syndrome," *J Occup Med.* 1981;23:255-258.
10. *Bernacki EJ, Baun W. "Effects of Age, Sex and Time on Exercise Adherence Level Changes." *Med Sci in Sports & Exercise*, 1983; 15:118.
11. *Gottlieb NH, Weinstein RP, Baun WB, **Bernacki EJ**. "A Profile of Health Risks Among Blue-Collar Workers," *J Occup Med.* 34:61-68, 1992.
12. *Lange WR, Frankenfield D, Weller E, Mooney P, **Bernacki EJ**. "The Prevalence of Hepatitis B, Hepatitis C and Human Immunodeficiency Virus Markers Among Hospital Employment Applicants," *J Occup Env Med.* 1992;37:486-489
13. *Lange WR, Cabnilla BR, Moler G, **Bernacki EJ**, Fudala PJ. "Pre-Employment Drug Screening at The Johns Hopkins Hospital, 1989 and 1991," *Am J Drug Alcohol Abuse*, 1992.
14. *Gershon RRM, Karkashian CD, Grosch JW, Murphy LR, Escamillia-Cejudo A, Flanagan PA, **Bernacki EJ**, Kasting C, Martin L. "Hospital Safety Climate and its Relationship with Safe Work Practices and Workplace Exposure Incidents," *Am J Infection Control.* 1999;28:3:211-221.
15. *Krenzischek DA, Schaefer J, Nolan M, Bukowski J, Twilley M, **Bernacki EJ**, Dorman T. "Phase I Collaborative Pilot Study: Waste Anesthetic Gas Levels in the PACU," *J Perianesth Nursing.* 2002;17:4:227-239
16. *Cope KA, Merritt WT, Krenzieschek DA, Schaefer JA, Bukowski J, Foster WM, **Bernacki EJ**, Dorman T, Risby TH. "Phase II Collaborative Pilot Study: Preliminary Analysis of Central Neural Effects From Exposure to Volatile Anesthetics in the PACU." *Am Soc Perianesth Nurses.* 2002;17:4:240-250
17. Tao G, ***Bernacki EJ**. "A Randomized Clinical Trial of Continuous Low-Level Heat Therapy for Acute Muscular Low Back Pain in the Workplace." *J Occ Env Med.* 2005; 47:1:12:1298-1306.
18. Tao G, ***Bernacki EJ**, Jankosky C, Means C. "An Assessment of Universal Versus Risk Based HCV Testing of Source Patients Post Exposure to Blood and Body Fluids Among Healthcare Workers." *J Occ Env Med.* 2005;48:5:470-477.
19. ***Bernacki EJ**, Tao G, Yuspeh L. "An Investigation of the Effects of a Healthcare Provider Network on Costs and Lost-Time in Workers' Compensation." *J Occ Env Med.* 2006; 48:9:873-882.
20. * **Bernacki EJ**, Tao X, Yuspeh L. "The Impact of Cost Intensive Physicians on Workers' Compensation." *J Occ Env Med.* 2010; 52:1:22-28.

Inventions, Patents, Copyrights (awarded)

81995-1997 Medical Management Guidelines and Indications. The Johns Hopkins University
All Rights Reserved

Extramural Funding

Current

- 7/05-present “Bladder Cancer Cluster Analysis of ATF Workers at Explosion Sites”
U.S. Bureau of Alcohol, Tobacco and Fire Arms (ATF)
\$27,000 Annually
Role: Consultant, 5%; Notes: The Division of Occupational Medicine was awarded a contract to investigate the relationship between exposures at explosion sites and the incidence of bladder cancer.
- 1/06-present “Inventory Management System for Casualty Carriers”
Louisiana Workers’ Compensation Corporation
\$35,000 Annually
Role: PI; 20%; Notes: Constructed a predictive tool and inventory management system for use by workers’ compensation carriers and self-insured companies. System is currently being beta tested at the Louisiana Workers’ Compensation Corporation
- 3/31/11- 3/31/12 “Analysis of Opioid Use Among Workers’ Compensation Claimants in the State of Michigan”
NA 00048087
Accident Fund Holdings, Inc.
\$53,600
Role: PI; 10%; Note: The Division of Occupational Medicine was awarded a grant to study the use of opioids of workers’ compensation claimants in the State of Michigan.

Pending none

Previous

- 11/01-11/03 “A Randomized Controlled Trial of Continuous Low-Level Heat Therapy for Acute Muscular Low Back Pain in the Workplace”
The Proctor and Gamble Corporation
\$30,000
Role: PI; 10%; Notes: Proctor and Gamble Corporation awarded the Division of Occupational Medicine this grant to study the effect of local heat therapy on pain and disability associated with occupationally acquired low back pain. The results of the study were published in the *Journal of Occupational and Environmental Medicine*, 2005;47:1:12:1298-1306
- 10/02-4/03 “Ten Years’ Experience Using an Integrated Workers’ Compensation Management System to Control Workers’ Compensation Costs”
Occupational and Environmental Health Foundation
\$25,000
Role: PI; 25%; Notes: The Occupational and Environmental Health Foundation awarded the Division of Occupational Medicine to study the effect of a web-based integrated claims management system on the reduction of disability duration and costs of workers’ compensation claims. The results of the study were published in the *Journal of Occupational and Environmental Medicine*, 2003;45:5:508-16
- 5/05-5/07 “The Control of Nosocomial Legionella in Hospital Water Systems”
The Andrew Family Foundation
\$300,000
Role: PI; 10%; Notes: The Division of Occupational Medicine was awarded a grant to perform a literature review and survey of nosocomial legionella control in US Hospitals. The literature review has been submitted for publication in the *Journal of the American Water Works Association*.
- 7/07-7/8/09 “Mental Health in the Workplace”
The Pepsi Bottling Group
\$30,500
Role: Consultant; 1%; Notes: The Division of Occupational Medicine was awarded a grant to study the relationship between advanced mental health training of nurse practitioners and improvements in the detection of depression among PBG employees.

5/10-5/11 “Study on the Costs and Benefits of Various TB Screening Strategies in the Employee Health Setting”
NA_00038494
Oxford Immunotech
\$50,000
Role: PI; 10%; Notes: The Division of Occupational Medicine was awarded a grant to study the costs and benefits of a new blood test to determine the presence of tuberculosis in healthcare workers.

Research Program Building/Leadership

1998 – Present Return on Investment Analytics – Developer and Program Director
2002 – Present Workers’ Compensation Analytics – Developer and Program Director

EDUCATIONAL ACTIVITIES

Educational Publications

Books and Book Chapters

1. **Bernacki EJ.** “The Control of Hazardous Exposure in the Workplace (Chapter 13),” in Women, Work and Health Challenges to Corporate Policy. Springer-Verlag Inc., New York, 1980.
2. Baun WB, **Bernacki EJ,** Herd JA. “Corporate Health and Fitness Programs and the Prevention of Work Stress ,” in Work Stress. (Quick JC, Bjugat RB, Dalton JE, Quick JD, eds.), Praeger, NY, 1987: 217-234.
3. Baun WB, **Bernacki EJ.** “Who are Corporate Exercisers and What Motivates Them?” in Exercise Adherence. (Dishman RK, ed.), Human Kinetics Books, Champaign, IL, 1988:321-348.
4. **Bernacki EJ.** “What is the Justification for the Establishment of a Corporate Fitness Program?” in Biological Effects of Physical Activity. (Williams RS, Wallace AG, eds.) Human Kinetics Books, Champaign, IL, 1989: 151-155.
5. **Bernacki EJ.** “New Risk Models,” (Chapter 6) in Integrated Health Management. Harris and Loeppke - OEM Press, Beverly Farms, MA, 1998.
6. **Bernacki EJ.** “The Organization and Management of a Medical Center's Occupational Health, Safety and Environmental Program,” Chapter in Medical Center Occupational Health and Safety, McCunney RJ (ed), Lippincott, Williams and Wilkens, 1999: 373-390.
7. **Bernacki EJ,** Schaefer JA. Book Chapter: “Human Factors and Ergonomics Programming in the Healthcare Industry.” Clinics In Occupational and Environmental Medicine, WB Saunders Co., Philadelphia, May 2001.
8. **Bernacki EJ.** “Factors Influencing the Costs of Workers’ Compensation.” Clinics in Occupational and Environmental Medicine. McKenzie J (ed), Elsevier, New York. May 2004.
9. **Bernacki EJ,** Tsai, Shan. “Ten Years Experience Utilizing An Integrated Workers’ Compensation Management System to Control Workers’ Compensation Costs. Workers’ Compensation Compendium 2005-2006, Volume Two. Quality Books, 2006.
10. Howard J, Hall K, **Bernacki EJ.** “Use of Workers’ Compensation Data for Occupational Injury and Illness Prevention; Proceedings from September 2009 Workshop.” Department of Health and Human Services, Department of Labor, Bureau of Labor Statistics, May 2010.

Teaching

Classroom Instruction

2/24/92 “The Workers'Compensation System in Practice,” Occupational Health Grand Rounds Presentation, Johns Hopkins University, School of Hygiene, Baltimore, MD (1 Hour)
3/5/92 “The Organization and Management of a Corporate Medical Department,” Occupational Safety and Health Management Course Johns Hopkins University, School of Hygiene, (1 Hour)
4/3/92 The Organization and Management of a Hospital Occupational Medical Program,” Anna Baetjer Course, Johns Hopkins University, School of Hygiene, Baltimore, MD (1 Hour)
4/5/93 “Needlestick Injuries and Their Management,” Occupational Health Grand Rounds, Johns Hopkins University, School of Hygiene, Baltimore, MD (1 Hour)

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- 4/16/93 "Musculoskeletal Injuries, Epidemiology and Prevention," Anna Baetjer Course, Johns Hopkins School of Hygiene, Baltimore, MD (1Hour)
- 3/9/95 "Corporate Occupational Medicine Programs," Occupational Safety and Health Management Course, Johns Hopkins University, School of Hygiene, Baltimore, MD (2 Hours)
- 6/30/95 "Control of Biohazards in the Research Laboratory," Biosafety Course, Johns Hopkins University Clarion Hotel, Baltimore, MD (2 Hours)
- 3/14/96 "The Organization and Management of a Corporate Medical Department," Occupational Safety and Health Management Course #182623, Johns Hopkins University, School of Hygiene (2 Hours)
- 3/11/97 "The Organization and Management of an Occupational Program," Occupational Safety and Health Management Course #182623, Johns Hopkins University, School of Hygiene, (2 Hours)
- 5/7/97 "Hospital Safety: Occupational and Environmental Perspectives," Occupational Safety and Health Management Course #182627, Johns Hopkins University, School of Hygiene, (1 Hour)
- 4/21/98 "Occupational Safety and Health Management Course," Johns Hopkins School of Hygiene and Public Health, Baltimore, MD (3 Hours)
- 2/11/02 "Organization of Large Integrated Occupational Safety and Health Program," Johns Hopkins Bloomberg School of Public Health, Baltimore, MD (1 Hour)
- 2005-present Private Enterprise & Medicine (Physician in Society), Johns Hopkins School of Medicine First and Second Year Medical Students; Basic Sciences/Armstrong Teaching Building; Johns Hopkins University (6 to 8 Hours per year)

Clinical Instruction

- 1994-present Preceptor and Thesis Advisor, The Johns Hopkins University, School of Hygiene and Public Health, Occupational Medicine Residency Program Johns Hopkins Rotation

CME/CEU Instruction

- 10/20/93 "Workers' Compensation, Rehabilitation and Disability," Department of Neurology - Pain Symposium, Johns Hopkins Outpatient Center, Baltimore, MD (1 Hour)
- 10/26/93 "Ergonomics and Prevention of Work Related Injuries," American College of Occupational and Environmental Medicine, State of the Art Conference, Dallas, TX (1 Hour)
- 5/19/94 "The Johns Hopkins Managed Workers' Compensation Program," American College of Occupational and Environmental Medicine, Annual Occupational Health Conference, Austin, TX (2 Hour)
- 11/10/94 "An Outcomes Study, Managed Care for Workers' Compensation," National Pain Conference, Miami, FL (2 Hour)
- 3/28/95 "Workers' Compensation and Managed Care," Infoline's 6th Annual Congress, Las Vegas, NV (1/2 Hour)
- 4/4/95 "Workers' Compensation and Managed Care," Injured Workers' Insurance Fund Conference, Crownsville, MD (1 Hour)
- 5/15/95 "Workers' Compensation and Managed Care," American College of Occupational and Environmental Medicine, Las Vegas, NV (2 Hour)
- 7/4/95 "Managed Care in Workers' Compensation," Southern Association of Workers' Compensation Administrators, Stauffer Hotel, Baltimore, MD (1 Hour)
- 7/20/95 "Carpal Tunnel Syndrome: Early Diagnosis and Treatment," SEAK 15th Annual National Workers' Compensation and Occupational Medicine Seminar, Cape Cod, MA (2 Hours)
- 10/26/95 "Initiative for a Managed Care Occupational injury and Illness Program, Johns Hopkins Managed Workers' Compensation Program," Self-Insurance Institute of America Conf, Orlando, FL (1 Hr)
- 11/19/95 "The Johns Hopkins Managed Workers' Compensation Program," American Academy of Physical Medicine and Rehabilitation, 57th Annual Assembly, Orlando, FL (1 Hour)
- 5/2/96 "Workers' Compensation Managed Care - Outcomes Analysis, American College of Occupational and Environmental Health, Annual Occupational Health Conference, San Antonio, TX (1 Hour)
- 10/24/96 "Comprehensive Initiative to Manage the Incidence and Cost of Occupational Injury and Illness, Report of an Outcomes Analysis," American College of Occupational and Environmental Medicine, State of the Art Conference, Toronto, Canada (1 Hour)

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- 4/24/97 "Economic Consequences of Occupational Exposure to HIV," PIC Greater Baltimore Infection Control Symposia, Baltimore, MD (1 Hour)
- 5/15/97 "Opportunities Under Managed Workers' Compensation - 24 Hour Coverage Plans," Session #124, American College of Occupational and Environmental Medicine, Annual Occupational Health Conference, Orlando, FL (1 Hour)
- 5/15/97 "Managed Care Initiatives for Occupational Injuries and Illnesses," Session #117, American College of Occupational and Environmental Medicine, Annual Occupational Health Conference, Orlando, FL (1 Hour)
- 6/6/97 "The Spectrum of Value-Added Occupational medicine in the Modern Marketplace," Occupational Medicine Rounds, Aberdeen Proving Grounds, Edgewood, MD (1 Hour)
- 6/15/97 "Managed Care for Workers' Compensation: Three Years of Experience in an "Employee Choice State"- Session #4, 2nd Florida Managed Care Conference, Gainesville, FL (1 Hour)
- 9/12/97 "Decision Making and Treatment – Outcome Based Practice," 10th Annual Occupational Medicine Update, University of Alabama, Destin, FL (1 Hour)
- 10/13/97 "Measuring the Effectiveness of Managed Workers' Compensation," 11th Annual National Conf – Providing Healthcare Services to Employers, Chicago, IL (1 Hour)
- 12/3/97 "The Contributions of Occupational Medicine to Controlling Workers' Compensation Costs," New York Occupational Medical Association, New York, NY (1 Hour)
- 4/29/98 "Ergonomic Redesign and Managed Care: the Rate of Surgery Among Injured Workers," American College of Occupational and Environmental Medicine, 1998 American Occupational Health Conf, Boston, MA (1 Hour)
- 11/9/98 "Academic Medicine and Managed Care Forum," Workplace Health Management Working Group, Aetna US Healthcare, Washington, DC (1 Hour)
- 10/19/99 "An Ergonomics Program Designed to Reduce the Incident of UEWMSDs," American College of Occupational and Environmental Medicine, State of the Art Conference, San Antonio, TX (1 Hour)
- 10/31/00 "Managing Musculoskeletal Injuries with Medical Care Based on Ergonomic Surveys," American College of Occupational and Environmental Medicine, State of the Art Conf, Nashville, TN (2 Hrs)
- 1/22/02 "The Health Status of the United States Workplace," Maryland Healthcare Coalition, Baltimore, MD (2 Hours)
- 4/15/02 "Managing Musculoskeletal Injuries with Medical Care Based on Ergonomic Surveys," American College of Occupational and Environmental Medicine, American Occupational Health Conference Chicago, IL (2 Hours)
- 4/16/02 "On-Site Physical Therapy," American College of Occupational and Environmental Medicine, American Occupational Health Conference, Chicago, IL (3 Hours)
- 4/18/02 "The Productivity of the US Workforce," American College of Occupational and Environmental Medicine, American Occupational Health Conference, Chicago, IL (30 Minutes)
- 7/3/02 "Controlling Bloodborne Pathogens: A US Perspective," Society of Occupational Medicine, University of Durham, Durham, England (30 Minutes)
- 4/5/03 "The Economic Impact of Occupational Injuries & Illnesses in an Organization," Texas Medical Association, San Antonio, TX (1 Hour)
- 4/8/04 "Occupational Exposure to Bloodborne Pathogens in Healthcare Workers," Occupational Epidemiology, Baltimore, MD (1 Hour)
- 4/28/04 "Successful Return to Work After Occupational Injury," Department of Health, Policy and Management, Bloomberg School of Public Health, Baltimore, MD (1 Hour)
- 11/7/04 "Innovation in Occupational and Environmental Health: Award Winners Presentation," ACOEM State of the Art Conference, San Antonio, TX (1 hour)
- 2/14/05 "Occupational Medicine in Large Corporations," Bloomberg School of Public Health, Baltimore, MD (1 Hour)
- 3/19/05 "Physicians Networks in Workers' Compensation," CSOMA National Leadership Award Presentation, 81st Annual Spring Seminar, Central States Occupational Medical Association, Chicago, IL (1 hour)
- 4/20/05 "Managed Care in Workers' Compensation," Howard Hughes Medical Institute's 15th Annual Environmental Health and Safety Conference, Arlington, VA (1 Hour)

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- 10/28/05 “Can Occupational Medicine Physicians Make a Difference – A Case Study,” ACOEM State of the Art Conference, Chicago, IL (1.5 Hours)
- 3/23/06 “Emerging Global Health Issues: Meeting the Challenge through Preventive Medicine,” 45th Annual Occupational Health and Preventive Medicine Conference, Hampton Roads, VA (1.5 Hours)
- 4/29/06 “Occupational Medicine Provider Networks and the Management of Disability and Cost in Workers’ Compensation,” Texas College of Occupational and Environmental Medicine, Annual Scientific and Business Meeting 2006, Marcus Key Lecturer, Galveston, TX (2 hours)
- 6/16/06 “An Investigation of the Effects of a Provider Network on Costs and Lost Time in Workers’ Compensation,” 28th International Congress on Occupational Health, Fiera Milano Congressi Center, Milan, Italy (2 hours)
- 11/1/06 “Research Opportunities in Occupational Health,” Johns Hopkins University, School of Medicine Baltimore, MD (1 Hour)
- 11/28/06 “Occupational Medicine Selective,” Johns Hopkins University Bloomberg School of Public Health Baltimore, MD (2 Hours)
- 10/1/07 “The Many Faces of an Occupational Medicine Practice in a Medical Center,” Bloomberg School of Public Health, Baltimore, MD (1 Hour)
- 2/12/08 “Occupational Medicine,” Physician in Society Course, Johns Hopkins University, School of Medicine, Baltimore, MD (2 Hours)
- 1/13/09 “Occupational Medicine,” Physician in Society Course, Johns Hopkins University, School of Medicine
- 2/3/09 “Occupational Medicine,” Physician in Society Course, Johns Hopkins University, School of Medicine, Baltimore, MD (4 - 2 Hour Sessions)
- 4/24/09 “The Effect of Cost Intensive Physicians on Workers’ Compensation,” Poster Presentation; American College of Occupational and Environment Medicine, San Diego, CA (8 Hours)
- 3/24/10 “Description of an Influenza Vaccination Campaign and Use of a Randomized Survey to Determine Participation Rates,” Metro Washington College of Occupational and Environmental Medicine, Arlington, VA (1.5 Hours)
- 5/3/10 “The Impact of Cost Intensive Physicians on Workers’ Compensation,” American Occupational Health Conference, Orlando, Florida (1.5 Hours)
- 5/5/10 “Monitoring Onsite Clinic Performance,” American Occupational Health Conference, Orlando, Florida (1.5 Hours)
- 10/10 “Private Enterprise and Preventive Medicine Selective,” First and Second Year Medical Students Johns Hopkins University, School of Medicine; Month of October (8 Hours)
- 2/25/11 “Changes in the Treatment of Chronic Pain,” Johns Hopkins Medicine Grand Rounds (1/2 Hour)
- 3/27/11 “The Use of Opioids in Management of Chronic Pain in Workers’ Compensation,” American Occupational Health Conference, Washington, DC (1 Hour)

Mentoring

1994-present Preceptor, The Johns Hopkins University, School of Hygiene and Public Health Occupational Medicine Residency Program, Johns Hopkins Hospital Rotation

Educational Program Building/Leadership *Non-Applicable*

Educational Extramural Funding *Non-Applicable*

CLINICAL ACTIVITIES

Certification

1968 National Board of Medical Examiners (91745)

Medical Licensure

1968 California (G15799)

1991 Maryland (D42162)

Medical Boards or Other Specialty Certifications

1974 American Board of Preventive Medicine, General Preventive Medicine
1975 American Board of Preventive Medicine, Occupational Medicine

Clinical Responsibilities/Clinical Program Building

1991-present Medical Director - Occupational Injury Clinic, Johns Hopkins Hospital
1991-present Medical Director - Occupational Health Services, Johns Hopkins Hospital
1999-present Medical Director - Marriott Corporation, Bethesda, MD
2006-present Medical Director - Becton Dickinson Corporation, Hunt Valley, Maryland

1998-present Consultant in Occupational Medicine - Hughes Network Services, Germantown, MD
1998-present Consultant in Occupational Medicine - Lockheed Martin Corporation, Baltimore, Maryland
2001-present Consultant in Occupational Medicine - Pepsi Beverages Company, Somers, New York
2002-present Consultant in Occupational Medicine - Louisiana Workers' Compensation Corporation, Baton Rouge, LA
2007-present Consultant in Occupational Medicine - Dean Foods, Dallas, TX
2011-present Consultant in Occupational Medicine - University of Washington Occupational Epidemiology and Health Outcomes Program

Clinical Extramural Funding

1998-present Middle River Aircraft Systems, Baltimore, MD; Revenue: \$412,229 – FY '11
1998-present Cytec Engineered Products, Havre de Grace, MD; Revenue: \$113,607 – FY '11
2003-present Becton Dickinson Corporation, Hunt Valley, MD; Revenue: \$9,700 – FY '11
2003-present Hughes Network Systems, Germantown, MD; Revenue: \$129,202 – FY '11
2004-present PepsiCo, Somers, New York; Revenue: \$7,510,524 – FY '11
2004-present Clinical Practice Revenue, Marriott, LA; Revenue: Workers' Comp, Consulting, etc. \$565,849 – FY '11
2006-present Dean Foods, Dallas, TX; Revenue: \$178,445 – FY '11
2011-2012 Accident Fund Holdings, Inc.; Revenue: \$53,600 – FY '11

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement Publications (Program Building) (*Corresponding author)

Peer Reviewed Articles

1. ***Bernacki EJ**. "Determining the Work Relatedness of Disease," *Connecticut Med.* 1982; 46:495-497
2. ***Bernacki EJ**, Baun WB. "The Relationship to Job Performance to Exercise Adherence in a Corporate Fitness Program," *J Occ Med.* 1984;26:529-531
3. Baun WB, ***Bernacki EJ**, Tsai SP. "A Preliminary Investigation, The Effect of a Corporate Fitness Program on Absenteeism and Health Care Cost," *J Occ Med.* 1986;28:18-22
4. ***Bernacki EJ**, Tsai SP, Reedy SM. "An Analysis of a Corporation's Health Care Experience: Implications for Cost Containment and Disease Prevention," *J Occ Med.* 1986;28:5092-508
5. Tsai SP, Baun WB, ***Bernacki EJ**. "The Relationship of Employee Turnover to Exercise Adherence in a Corporate Fitness Program," *J Occ Med.* 1987;29:572-575
6. Scharon GM, Tsai SP, ***Bernacki EJ**. "Nurse Practitioners in an Occupational Setting: Utilizing Patterns for the Delivery of Primary Care," *AAOHN J.* 1987; 6:280-284
7. *Tsai SP, **Bernacki EJ**, Reedy SM. "Mental Health Care Utilization and Costs in a Corporate Setting," *J Occ Med.* 1987;29:812-816
8. *Tsai SP, **Bernacki EJ**, Reedy SM, Miller KE. "Health Care Utilization and Cost for Disease of the Circulatory System in a Corporate Setting," *Preventive Medicine.* 1988;17:1-11
9. *Tsai SP, Reedy SM, **Bernacki EJ**, Lee ES. "Effect of Curtailed Insurance Benefits in of Use of Mental Health Care - Tenneco Health Plan," *Medical Care.* 1988;26:43-440

10. *Tsai SP, Lucas LL, **Bernacki EJ**. "Obesity and Morbidity Prevalence in a Workers Population," *J Occ Med*. 1988;30:589-591
11. *Tsai SP, **Bernacki EJ**, Baun WB. "Injury Prevalence and Associated Costs Among Participants of an Employee Fitness Program," *Preventive Medicine*. 1988;17:475-482
12. ***Bernacki EJ**, Tsai SP, Malone RD. "Participation in a Periodic Physical Examination & Group Health Care Utilization and Costs," *J Occ Med*. 1988;30:949-952
13. *Tsai SP, **Bernacki EJ**, Reedy SM, Miller KE. "Health Care Utilization and Cost for Disease of the Circulatory System in a Corporate Setting," *Preventive Medicine*. 1988;17:1-11
14. *Tsai SP, Reedy SM, **Bernacki EJ**, Lee ES. "Effect of Curtailed Insurance Benefits in of Use of Mental Health Care - Tenneco Health Plan," *Medical Care*. 1988;26:43-440
15. *Tsai SP, Lucas LL, **Bernacki EJ**. "Obesity and Morbidity Prevalence in a Workers Population," *J Occ Med*. 1988;30:589-591
16. *Tsai SP, **Bernacki EJ**, Baun WB. "Injury Prevalence and Associated Costs Among Participants of an Employee Fitness Program," *Preventive Medicine*. 1988;17:475-482
17. *Tsai SP, Bernacki EJ, Dowd CM. "Incidence and Cost of Injury in an Industrial Population." *J Occ Med*. 1989;31:9:781-784
18. ***Bernacki EJ**, Tsai SP. "Use of Group Health Insurance Claims Data to Access Morbidity Among Employed Persons," *J Occ Med*. 1989;31:781-784
19. *Tsai SP, **Bernacki EJ**, Lucas LJ. "A Longitudinal Method of Evaluating Employee Turnover," *J Business Psychol*. 1989;3:465-473
20. *Tsai SP, **Bernacki EJ**, Dowd CM. "The Relationship Between Work-Related and Non-Work-Related Injuries," *J Community Health*. 1991;16:205-212
21. *Tsai SP, **Bernacki EJ**, Dowd CM. "Health Care Utilization and Costs for Injury in a Corporate Setting," *J Community Health*. 1991;16:92-102
22. *Tsai SP, **Bernacki EJ**, Dowd CM. "The Relationship Between Work-Related and Non-Work-Related Injuries." *J Community Health*. 1991;16:205-212
23. *Lange WR, Cabanilla BR, Moler G, Bernacki EJ, Frankenfield DL. "Preemployment Drug Screening at the Johns Hopkins Hospital, 1989 and 1991. *Am J Drug Alcohol Abuse*. 1994;20:1:35-46
24. *McGrail MP, Tsai SP, **Bernacki EJ**. "A Comprehensive Initiative to Manage the Incidence and Cost of Occupational Injury and Illness," *J Occ Environ Med*. 1995;37:11:1263-1268
25. ***Bernacki EJ**, Tsai SP. "Managed Care for Workers' Compensation: Three Years Experience in an employee Choice "State," *J Occ Environ Med*. 1996;28:11:1091-1097
26. *Green-McKenzie J, Parkerson J, **Bernacki EJ**. "Comparison of Workers' Compensation Costs for Two Cohorts of Injured Workers Before and After the Introduction of Managed Care," *J Occ Environ Med*. 1998;40:6:568-572
27. ***Bernacki EJ**, Guidera JA. "The Effect of Managed Care on Surgical Rates Among Individuals Filing for Workers' Compensation," *J Occ Environ Med*. 1998;40:7:623-631
28. ***Bernacki EJ**, Guidera JA, Schaefer JA, Lavin RA, Tsai SP. "An Ergonomics Program Designed to Reduce the Incident of Upper Extremity Work Related Musculoskeletal Disorders," *J Occ Environ Med*. 1999;41:12:1032-1041
29. ***Bernacki EJ**, Guider JA, Schaefer JA, Tsai SP. "A Facilitated Early Return to Work Program at a Large Urban Medical Center." *J Occ Environ Med*. 2000;42:12:1173-1177
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Non-Peer Reviewed Articles

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2. Channell B, Bernacki EJ. “A PPO for Catastrophic Illness.” *Business and Health.* 1985;22-23.
3. Tsai SP, Bernacki EJ, Stewart AA. “Health Insurance Coverage and Health Care Utilization: A Corporate Perspective,” *Health and Human Resources Administration.* 1986;9:246-267
4. Tsai SP, Reedy SM, Bernacki EJ. “The Effects of Redesigning Mental Health Benefits.” *Business and Health.* 1987; 26-28
5. *Bernacki EJ. “Can Corporate Fitness Programs Be Justified?” *Fitness in Business.* 1987;1:173-174
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System Innovation and Quality Improvement Program Building/Leadership Efforts within JHM

2001-present In my roles as Executive Director of Health, Safety and Environment and Division Director, I was responsible for initiating and managing the following innovations within Johns Hopkins Medicine Only major innovations initiated between 2001 to the present are included.

a. Utilization of an Integrated Claims Management System to Reduce Workplace Injuries and Disability Duration

Johns Hopkins Medicine implemented a highly integrated Web-based system that interweaves case management, safety oversight and claims management functions, in addition to other functions essential to preventing injuries and tracking the medical care of injured employees. The system captures data such as details of an employee’s injury, medical care, status of the safety investigation of the index work-site and whether the hazard has been eliminated. These data are then trended and analyzed to uncover areas of concern and possible correction.

The Web-based system allows demographic and injury data to be entered at the time the employee seeks care at each of the Institutions' Occupational Health Clinics. The information is automatically e-mailed to the safety office, nurse case manager and claims office. Upon notification, safety personnel investigate the incident within a 24-hour period and initiate a plan of correction for the identified risk, thereby helping to reduce the likelihood of further injuries. Early notification allows the nurse case manager to identify significant cases and begin the case facilitation process immediately. The Claims Office initiates the process of claims acceptance and reporting to the Maryland Workers' Compensation Commission, thereby reducing claimant uncertainty and litigation. Multiple users, each with varying levels of security, have access to the system, allowing real-time knowledge of the status of all compensable injuries.

The Claims Management System builds upon the success of the Johns Hopkins Integrated Workers' Compensation Program launched in 1991, which focuses on reducing the incidence and costs of workplace injuries by increasing the dialogue between all participants in the workers' compensation process. Features of the Program include a small network of highly skilled physicians, patient advocacy, customer service, occupational medicine oversight, investigation of accidents and close follow-up of cases amongst others. Results over 10 years are significant. Among them; decreases in frequency of lost time, medical claims and total workers' compensation expenses of 77%, 60% and 54%, respectively.

Johns Hopkins measures the success of the Integrated Claims Management System and Workers' Compensation Program by assessing the following variables as:

- *average time between injury and reporting to a clinic*
- *average time between injury and reporting to the Maryland Workers' Compensation Commission*
- *number of work-sites investigated post injury*
- *medical and indemnity severity valued at 6, 18, 30 and 42 months*
- *temporary/total days paid*
- *hearing rates*
- *injury frequency*
- *medical, indemnity and administrative costs*
- *number of work sites where hazards have been corrected*

Each of these variables is assessed on a yearly basis. Comparison allows Johns Hopkins to identify areas of success and areas where improvements are needed. This continuous assessment allows the Program the ability to achieve greater efficiencies over time.

In 1991 the Johns Hopkins Hospital and University's medical, indemnity and other losses were \$0.71 per \$100 of payroll and in FY '10, these losses amounted to \$0.43 per \$100 of payroll. Furthermore, medical care costs per \$100 of payroll decreased from \$0.23 in 1991 to \$0.18 in 2010. These decreases in workers' compensation expenses related to the improved management of claims, has resulted in savings of between \$3 M to \$8 M per year for the Johns Hopkins Hospital/University.

b. Procedure to Assess Exposure to Laboratory Animals

A program to protect individuals who do not use laboratory animals from an inadvertent exposure to animal pathogens or allergens has been developed utilizing Mouse Urine Protein (MUP) as an index of exposure. To assess exposure along animal transportation routes, common routes used for animal transport were identified. In order to insure that individuals along these routes were minimally exposed to allergens or other pathogenic material associated with animals, procedures were developed to assess whether or not these enclosures were sufficient to protect personnel utilizing these transport routes. The same strategy for assessment of exposure along transportation routes was also utilized for investigators who do not use animals, but are working in laboratories adjacent to where animals are housed or utilized. A study was initiated utilizing MUP as a marker of exposure. MUP was selected because 91% of the laboratory animals utilized is mice and MUP can be aerosolized. Because of this, MUP was thought to be the most ubiquitous indicator of animal exposure. Furthermore, MUP is a potent sensitizer posing a significant allergenic threat to exposed individuals. Lastly, studies have been conducted and indicate that the risk of sensitization to MUP increases at MUP concentrations above 5 ng/m³ indicating that a potentially Asafer level@ could be established (we postulated a Asafe level@ at 1.0ng/m³ utilizing a five-fold protection factor). Health, Safety and Environment initiated a study of MUP along transport routes, animal holding and research areas. The goal of the study is to assess levels and, through engineering controls, to reduce these levels to the lowest concentrations possible never exceeding the 1.0 ng/m³ level. Data collected from area air sampling indicated a range of MUP concentration from 0.03 to 0.97 ng/m³ suggesting that exposure levels were low. This suggests that close observation is necessary to prevent excursions above the action level of 1.0 ng/m³.

c. Development of a Reporting Mechanism to Comply with the Medicare Secondary Payer Act

Amendments to the Medicaid, Medicare and SCHIP Extension Act of 2007 (Medicare Secondary Payer Act) requires workers' compensation insurers and self-insured employers to report workers' compensation claimants to Medicare. The Medicare Secondary Payer Act makes Medicare a secondary payer to non-group health plans (Workers' Compensation).

As a result, Johns Hopkins is responsible for identifying and submitting quarterly reports to Medicare regarding Johns Hopkins claims involving individuals eligible for Medicare benefits. The penalties for not reporting are \$1,000 per covered individual per day. To address this reporting requirement, the Johns Hopkins Workers' Compensation Program has established a compliance process. A process has been created and tested that is now reporting all Medicare eligible claims to the Department of Health and Human Services. The development of this software program has allowed Johns Hopkins to save approximately \$12,000 to \$15,000 per year in reporting expenses.

d. Performance Improvement Initiative to Increase Influenza Immunization and Accurate Reporting to the Baltimore City Health Department and the State of Maryland

In fiscal year 2009 a number of new procedures were initiated to increase participation in the Johns Hopkins Influenza Immunization Program. In addition, a randomized survey was conducted to quantify the vaccination rate among healthcare workers with and without patient contact. The randomized survey indicated that for the CY '09 and CY '10 vaccination season, the new procedures resulted in an overall vaccination rate of 71.3% (95% confidence interval: 68.6-74.0%) and a vaccination rate for employees with direct patient contact of 82.8% (95% confidence interval: 80.1-85.5%).

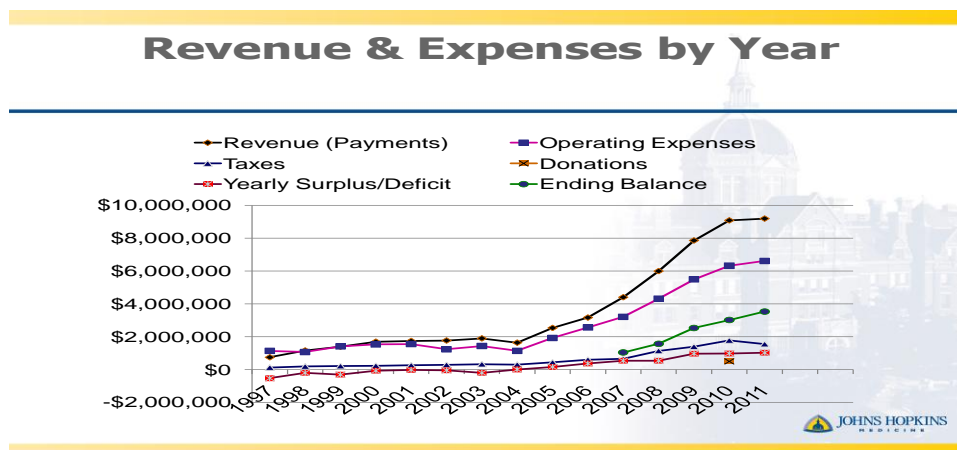
The study indicated an improvement in the immunization rates for the Johns Hopkins Hospital. It also presented a method of quantifying participation among healthcare workers with direct patient care, the group most likely to transmit the disease to patients.

e. Bloodborne Pathogen Online Reporting System

Johns Hopkins launched a new STIX online form for reporting low risk bloodborne pathogen exposures on July 1, 2010. The STIX report form can be accessed anytime and from anywhere by an employee of JHM working on the East Baltimore Campus and has been accidentally exposed to potentially infectious body fluids. The goal of this online report form is to provide employees with a convenient mechanism of reporting the incident and improving reporting compliance. The website does not replace the "5-STIX" hotline that is available 24 hours a day for employees needing assistance and counseling. The site has recorded **three submissions** per week since being initiated. To my knowledge this is the only online reporting form utilized by an academic medical center.

f. Improvement in Revenue Generation by the Division of Occupational Medicine

During the fiscal year, gross revenues increased from **\$7.9 M** in FY '09 to **\$9.1 M** in FY '10, a **16%** increase. This follows a **32%** increase, FY '08 to FY '09, a **30%**, FY '07 to FY '08 and a **42%** increase, FY '06 to FY '07. Taxes paid to the Department of Medicine and the Dean's Office increased from **\$1.4 M** to **\$1.8 M** (FY '09 to FY '10). The surplus this year was **\$1.0 M** the same as it was last year. The Division's ending balance increased from **\$2.5 M** in FY '09 to **\$3.0 M** in FY '10.

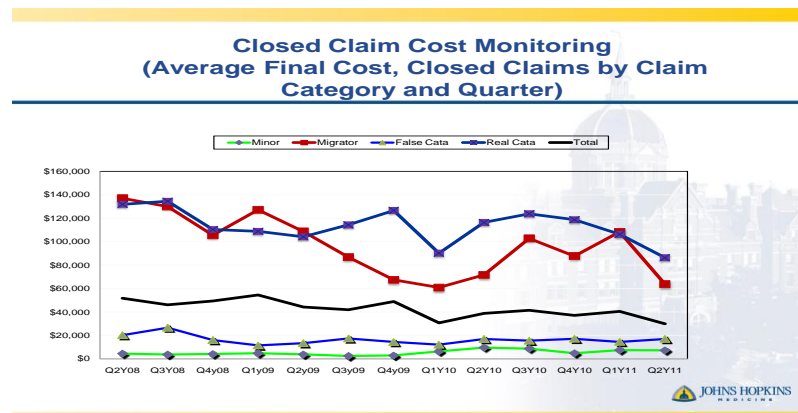


g. Development of Online Tool Assess Medical Care Quality and Return on Investment.

In order to differentiate the Johns Hopkins Division of Occupational Medicine's onsite medical provider program from competitors, a software program was created to assess medical care quality and return on investment. The software has been in place approximately four years. The Program's metrics indicate that each clinic consistently achieves medical care provision standards that are consistent with occupational medicine evidenced based medical guidelines and that the ROI for each clinic exceeds individual clinic expenses. The average ROI for our onsite clinics this fiscal year was **1.6** the same as it has been for the past two fiscal years. Interestingly, the ROI for the onsite clinics (PBC, Dean Foods, etc.) is lower than the HSE managed JHH Health and Wellness Clinic which was **3.0**. This is due to the fact that the average onsite clinic serves an average population of **400** versus **7,000** at the Johns Hopkins Hospital.

System Innovation and Quality Program Building/Leadership Outside of JHM

The Division of Occupational Medicine demonstrated the efficacy of its instrument that predicts the ultimate cost of a workers' compensation claim and its inventory management system. Utilizing the instrument LWCC, our client, managed to significantly decrease the closing cost of claims, as well as increase the closing rate of high cost migratory claims (see figure below).



ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

- 1991-present JHH/JHU Joint Committee for Health, Safety and Environment, Chairman
- 1991-1996 JHH Safety Workgroup
- 1992-present JHU Student Health Services Committee
- 1992-present JHH Risk Management Committee
- 1992-1998 JHH Infection Control Committee
- 1994-present JHH/JHU Workers' Compensation Workgroup
- 1994-present JHH/JHU Case Management Workgroup
- 1995-1998 JHH Clinical Performance Improvement Committee
- 1995-present JHU Environmental Health Committee
- 1995-present JHH/JHU Medical Management Workgroup
- 1995-present JHH Performance Improvement Council
- 1995-1997 JHH Interdepartmental Risk Management Committee
- 1996-1999 Johns Hopkins HealthCare Steering Committee
- 1998-present JHU Crisis Management Committee

Editorial Activities

- 1981-present Active peer reviewer for the *Journal of Occupational & Environmental Medicine*

Advisory Committees, Review Groups/Study Sections

- 1976-1978 National Institute of Alcohol Abuse and Alcoholism Primary Review Group
- 1981-present National Institute of Occupational Safety & Health
- 1981-1984 NIOSH Safety and Occupational Health Study Section
- 2002-2004 National Advisory Committee on Ergonomics (NACE)
- 2004-2005 Rand Corporation Expert Panel on Workers' Compensation Treatment Guidelines
- 2011-present State of Washington Workers' Compensation Division Low Back Quality Indicator Focus Group

Professional Societies

- 1974-present American College of Occupational and Environmental Medicine
1974-present Member
1987-2004 Board Member
1993-1993 Secretary
1996-1998 Treasurer
1999-2000 Second Vice President
2000-2001 First Vice President
2001-2003 President-Elect
2002-2003 President, ACOEM
- 1993-present Maryland Occupational and Environmental Medicine Association
- 1997-present Ramazzini Society
- 2004-present Co-Chair, Board Committee on Government Relations

Conference Organizer, Session Chair

- 5/89-5/4/90 Conference Chair, American College of Occupational and Environmental Medicine, American Occupational Health Conference, Houston, Texas
- 10/92-10/93 Conference Chair, American College of Occupational and Environmental Medicine, State-of-the-Art Conference, Dallas, Texas
- 10/97-10/00 Conference Co-Chair, Topics in International Medical Care and Travel Medicine, Johns Hopkins University, School of Medicine, Baltimore, MD
- 9/99-3/00 Conference Co-Chair, Environmental Protection Seminar, Johns Hopkins University
- 4/00-10/00 Conference Co-Chair, Recent Advances & Emerging Technologies in Medicine, New Knowledge for Corporate Decision Makers, Johns Hopkins University, School of Medicine, Baltimore, MD
- 10/01-10/02 Conference Chair, State-of-the-Art Conference, American College of Occupational and Environmental Medicine, Baltimore, Maryland
- 10/10-3/11 Planning Committee, American Occupational Health Conference, Washington, DC

Testimonies Before Governing Bodies

- 3/24/99 Represented the American College of Occupational and Environmental Medicine at a Meeting of Selected Senators and Congressman Proposing Safety and Health Legislation at the 1999 Congressional Session
- 6/22/99 Presented "An Ergonomic program Designed to Reduce the Incidence of Upper Extremity Work Related Musculoskeletal Disorders" to the Assistant Secretary of Labor for the United States
- 6/22/99 Presented "An Ergonomic Program Designed to Reduce the Incidence of Upper Extremity Work Related Musculoskeletal Disorders" to Representatives of the Office of Management and Budget of the United States
- 5/10/00 Testified on Behalf of the Occupational, Safety and Health Administration at the Occupational Safety and Health Administration's Hearing on the Proposed Ergonomics Program Standard, Docket No. S-777
- 5/11/00 Testified on Behalf of the American College of Occupational and Environmental Medicine at Occupational Safety and Health Administration's Hearing on the Proposed Ergonomic Standard

Consultantships *see above under Clinical Program Building*

RECOGNITION

Awards

- 7/70 The Meritorious Service Medal of the United States
- 5/00 American Association of Occupational Health Nurses/American College of Occupational and Environmental Medicine Joint Research Award - Year 2000 Recipient, Philadelphia, PA
- 3/05 CSOMA National Leadership Award, Presented by the Central States Occupational Medical Association
- 3/11 ACOEM Robert A. Kehoe Award of Merit, Presented at the American College of Occupational Medicine, Annual Meeting, Washington, DC