

## **CURRICULUM VITAE**

**JEFFREY BRENT, M.D., Ph.D.**

### **ACADEMIC APPOINTMENTS**

Distinguished Clinical Professor

Department of Internal Medicine (Clinical Pharmacology and Toxicology), University of Colorado, School of Medicine, Sept 2012 – Present

Distinguished Clinical Professor

Department of Emergency Medicine, University of Colorado, School of Medicine, Oct 2013 – Present (Secondary appointment)

Clinical Professor

Department of Environmental and Occupational Health, Colorado School of Public Health, December 2010 - Present

Clinical Professor

Department of Internal Medicine (Clinical Pharmacology and Toxicology), University of Colorado, School of Medicine, Denver, CO, March 2001 – Sept 2012

Clinical Professor

Department of Pediatrics, University of Colorado Health Science Center, December 2001 – Present

Associate Clinical Professor

Department of Internal Medicine (Clinical Pharmacology and Toxicology), University of Colorado Health Science Center, Denver, CO, January 1996 - 2001

Associate Clinical Professor

Department of Surgery (Emergency Medicine), University of Colorado Health Science Center, Denver, CO. July 1995 – June 2005

Associate Clinical Professor

Department of Pediatrics (Pediatric Pharmacology), University of Colorado Health Science Center, July 1995 – December 2001

Assistant Clinical Professor

Department of Surgery (Emergency Medicine), University of Colorado Health Science Center, Denver, CO, March 1993 - June 1995

Assistant Clinical Professor

Department of Pediatrics (Pediatric Pharmacology), University of Colorado Health Science Center, Denver, CO, March 1993 - June 1995

Assistant Professor

Department of Surgery (Trauma and Emergency Medicine), University of Colorado Health Science Center, Denver, CO, July 1989 - March 1993

Assistant Professor

Department of Pediatrics (Pediatric Pharmacology), University of Colorado Health Science Center, Denver, CO, July 1989 - March 1993

Clinical Instructor

Department of Surgery (Trauma and Emergency Medicine), University of Colorado Health Science Center, Denver, CO, July 1987 - June 1989

Assistant Professor

Department of Biochemistry, University of Massachusetts, Amherst, MA, September 1983 - June 1986

Instructor

Department of Community Medicine (Emergency Medicine), Tufts University School of Medicine, Boston, MA, July 1984 - June 1986

Adjunct Professor of Emergency Medicine

Springfield College, Springfield, MA, July 1985 - June 1986

**PRIVATE OFFICE ADDRESS**

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Suite 325  
Littleton, CO 80210  
(720) 477-2500  
Jeffrey.Brent@UCDenver.edu

**PROFESSIONAL APPOINTMENTS**

Attending Physician

Department of Medicine, Division of Clinical Pharmacology and Toxicology, University of Colorado Health Sciences Center, Denver, CO, July 1990 – present

Attending Physician

Division of Medical Toxicology, Children's Hospital of Colorado, Aurora, CO, July 2013 - present

Attending Physician

Rocky Mountain Children's Hospital, Englewood, CO, April 2010 - present

Attending Physician

Division of Medical Toxicology, The Children's Hospital, Denver, CO, March 2002 to November 2008

Director

Clinical Pharmacology and Toxicology Consultation Services, Division of Clinical Pharmacology and Toxicology, Department of Medicine, University of Colorado Health Sciences Center, August 2000 - August 2001

Attending Physician

Department of Surgery, Division of Emergency Medicine, University of Colorado Health Science Center, Denver, CO, July 1987 -present

Attending Physician

Porter Memorial Hospital Regional Poison Treatment Center, Denver, CO, September 1987 - present

Attending Physician

Porter Memorial Hospital, Division of Hyperbaric Medicine, Denver, CO, July 1989 - May 1999

Aviation Medicine Consultant

Aviation Medicine Clinic, University of Colorado Health Sciences Center, October 1992 - December 1996

Attending Physician

Occupational Health Clinic (Occupational Toxicology), University of Colorado Health Sciences Center, Denver, CO, July 1991 - December 1996

Medical Toxicology Fellowship Director

University of Colorado Health Sciences Center, Rocky Mountain Poison Center, Denver, CO, August 1991 - February 1993

Acting Medical Director

Rocky Mountain Poison Center, Denver, CO, August 1991 - October 1992

Acting Director

Division of Clinical Toxicology, Department of Medicine, Denver General Hospital, Denver, CO, August 1991 - October 1992

Medical Director

Rocky Mountain Drug Consultation Center, Denver, CO, April 1991 - February 1993

Assistant Medical Director

Rocky Mountain Poison Center, Denver, CO, July 1989 - July 1991

Member

University Physicians, Inc  
University of Colorado  
Anschutz Medical Center  
Aurora, CO  
July 1989 - Present

Attending Physician

Department of Medicine, Division of Clinical Toxicology, Denver General Hospital,  
Denver, CO, July 1989 - February 1993

Attending Physician and Director of Research

Department of Emergency Medicine, Baystate Medical Center, Springfield, MA, July  
1982 - June 1986

Research Affiliate

Department of Experimental Therapeutics, Roswell Park Memorial Institute, Buffalo,  
NY, July 1978 - June 1979

Post Doctoral Staff Associate

Institute of Cancer Research, Columbia University College of Physicians and Surgeons,  
New York, NY, July 1977 - June 1978

## **EDUCATION**

College:

Hunter College, New York, NY 1965 - 1970

Degrees: B.A. (Chemistry), M.A. (Molecular Biology), Graduated - August 1970

Graduate School:

Mt. Sinai School of Medicine, New York, NY 1971-1976

Degree: Ph.D. (Biochemistry), Graduated - June 1976

Medical School:

State University of New York School of Medicine, Buffalo, NY 1978-1980

Degree: M.D., Graduated - December 1980

Graduate Medical Education:

Internship : General Surgery, New England Deaconess Hospital/Harvard Surgical  
Service, Boston, MA, January 1980-December 1981

Residency: Obstetrics/Gynecology, University of Connecticut School of Medicine, Farmington, CT, January 1982-June 1982

Residency: Emergency Medicine, Emory University School of Medicine/Grady Memorial Hospital, Atlanta, GA, Graduated - June 1987

Fellowship: Clinical Toxicology, Rocky Mountain Poison Center, Denver General Hospital, University of Colorado Health Science Center, 1987-1989, Graduated - June 1989

## **BOARD CERTIFICATION**

Diplomate, American Board of Medical Examiners 1982  
Diplomate - American Board of Emergency Medicine, Certified 1989, Re-certified 1998  
Diplomate - American Board of Medical Toxicology 1989 (Permanent Certificate)  
Diplomate - Joint American Boards of Preventive Medicine, Pediatrics and Emergency Medicine, Sub-Specialty Sub-Board on Medical Toxicology 1995-2005; Recertified 2005-2015 and 2015 - 2025.

## **LICENSURE**

Colorado:	#28185, 1987 - present
Massachusetts:	#19683, 1982 (Inactive)
New York:	#150956, 1982 (Inactive)
Georgia:	#29418, 1987 (Inactive)

## **AWARDS/HONORS**

- American Academy of Clinical Toxicology Research Fellowship Award 7/89-6/90
- American College of Emergency Physicians Career Development Award 7/90-6/91
- Teaching Excellence Award by the second-year Medical School Class, University of Colorado Health Sciences Center, 1992
- Co-author of Best Resident/Fellow Poster Presentation for "Prevention of Neurologic Sequelae from Carbon Monoxide by Hyperbaric Oxygen in Rats", C. Tomaszewski, et al, presented at Society of Academic Emergency Medicine, Toronto, Canada 1992
- American College of Emergency Physicians, Certificate of Appreciation, 1993
- Fellow, American Academy of Clinical Toxicology, 1993 - present
- National Environmental Health Association, Certificate of Appreciation, 1995

- American College of Emergency Physicians, Faculty Honorable Mention Award, 1994
- American Academy of Family Physicians, Certificate of Recognition for teaching in family practice, 1995
- Outstanding Clinical Faculty Research Award, University of Colorado Health Sciences Center, Department of Medicine, 1997
- Fellow, American College of Medical Toxicology, 1997 - present
- American College of Physicians, Preceptorship Award, 1997
- American Academy of Family Physicians, Certificate of Recognition for Teaching, 1997
- American Association of Poison Control Centers, Micromedex Award for Best Scientific Paper of the North American Congress of Clinical Toxicology, 1998
- Outstanding Consultant Award, *Annals of Emergency Medicine*, 1999
- European Association of Poison Control Centres and Clinical Toxicologists (EAPCCT), Presented with an engraved decanter for recognition of service to the field of clinical toxicology and the EAPCCT, 2000
- Outstanding Clinical Faculty Research Award, University of Colorado Health Science Center, Department of Medicine, 2001
- Louis Roche Awardee and Lecturer by the European Association of Poisons Centres and Clinical Toxicologists, 2005
- Academic Publications Award, Department of Medicine, University of Colorado, School of Medicine, 2006
- McKinney Lecturer, University of New Mexico, School of Medicine. Dec 4, 2007
- Designated as an “Outstanding Reviewer” for the journal *Academic Emergency Medicine*, 2007
- Certificate of Appreciation, Visiting Professorship, U.S. Food and Drug Administration, 2010
- American Academy of Clinical Toxicology Career Achievement Award and Lectureship, 2010
- Top Consultant Award, *Annals of Emergency Medicine*, 2011
- Clinical Faculty Research Award, Department of Medicine, University of Colorado, School of Medicine, 2011
- *Annals of Emergency*, designated Senior Reviewer (requires being recognized as a Top Reviewer twice in a four year period), 2011 and 2016
- 2011 Clinical Faculty member of the year, University of Colorado Hospital
- US Centers for Disease Control and Prevention, Certificate of Appreciation “in recognition of your contribution to ambulatory medical care and public health” 2012
- American College of Medical Toxicology, Mathew J Ellenhorn Award for Outstanding Contributions to Medical Toxicology, 2013
- Society of Toxicology, Clinical and Translational Sciences Career Achievement Award, 2013
- Chosen as one of Colorado’s Top Doctors by Colorado Magazine, 2021

- Co-author, Best ToxIC Abstract presented at the American College of Medical Toxicology's Annual Scientific meeting, 2017
- One of the Top 50 peer-reviewers, Annals of Emergency Medicine, 2017
- Co-author, Best ToxIC Abstract presented at the American College of Medical Toxicology's Annual Scientific meeting, 2020
- Co-author Best ToxIC Abstract presented at the American College of Medical Toxicology's Annual Scientific meeting, 2022

**GRANTS AND CONTRACTS** (Only currently active projects and/or ones with work being completed are shown)

Grant: NIDA National Early Warning System Network (iN<sup>3</sup>): An Innovative Approach  
 Funder: National Institute of Drug Abuse  
 Period: 9/15/14 – 8/31/15  
 Amount: \$258,806  
 Awarded To: Robert Carlson, PhD and Edward Boyer, MD, PhD  
 Role: Co-investigator

Grant: Prevention of Cardiovascular Complications from Drug Overdose Emergencies  
 Funder: U.S National Institute of Drug Abuse  
 Period: 9/1/14 – 6/1/19  
 Amount: \$528,526  
 Awarded To: Alex Manini, MD  
 Role: Co-investigator

Grant: Predicting medical consequences of novel fentanyl analog overdose using the Toxicology Investigators Consortium (Toxic)  
 Funder: U.S. National Institute of Drug Abuse  
 Period: 9/1/14 – 5/1/19  
 Amount: \$691,868  
 Awarded To: Alex Manini, MD  
 Role: Co-investigator

Contract: CDC – Toxic Collaboration  
 Funder: US Centers for Disease Control and Prevention  
 Period: 4/17/2020 – 4/19/2023  
 Amount: \$900,000  
 Awarded To: American College of Medicine Toxicology  
 Role: Co-Principal investigator

Contract: FDA – Toxic Collaboration  
 Funder: US Food and Drug Administration  
 Period: 6/1/16 - Present  
 Amount: \$65,000/annum  
 Awarded To: American College of Medical Toxicology  
 Role: Principal Investigator (with Paul Wax, MD, Principal Investigator)

Contract: FDA-Toxic collaboration of adverse drug events related to SARS-CoVid-19 treatment or prophylaxis

Funder: US Food and Drug Administration

Period: 9/22/2020 – 9/21/2021

Amount: \$990,000

Awarded To: American College of Medical Toxicology

Role: Principal Investigator (with Paul Wax, MD, Principal Investigator)

Grant: False negatives form urine drug screening from trauma patients

Funder: American Academy of Clinical Toxicology

Period: August 2020 – June 2021

Amount: \$45,000

Awarded: Stephanie Weiss, MD, PhD

Role: Mentor

Funder: US Food and Drug Administration

Period: 9/22/2021 – 9/21/2022

Amount: \$1,499,824

Awarded To: American College of Medical Toxicology

Role: Principal Investigator (with Paul Wax, MD, Principal Investigator)

### **AMERICAN COLLEGE OF MEDICAL TOXICOLOGY**

Member, Administrative Structure Committee, 1994-1995

Fellow of the American College of Medical Toxicology, Sept 1997 - present

Chair, Task Force on Code of Ethics for Medical Toxicologists, 2004 – 2010

Chair, Practice Committee, 2006 – 2009

Chair, Education Task Force, 2006 - 2008

Member, Board of Directors, 2006 – 2008

Director, Cooperative Agreement with U.S. Centers for Disease Control and Prevention,  
Medical Consequences of Methamphetamine Laboratories, 2007 - 2010

Moderator, Medical Toxicology Fellows-in-Training Roundtable, How to Establish a  
Practice in Medical Toxicology, Miami, FL, March 15, 2007

Moderator, Medical Toxicology Fellows-in-Training Roundtable, The Role of Poison  
Centers in Careers in Medical Toxicology, San Diego, CA, March 7, 2008

Moderator, Medical Toxicology Fellow-in-Training Roundtable, The valuation of job  
offers, San Juan, PR, March 28, 2009

Organizing Committee, Neurotoxicology Conference, San Juan, PR March 27-28, 2009

Moderator, The use of neuropsychological testing in the assessment of cognitive  
complaints after chemical exposure, March 27, 2009

Director, Toxicology Investigators Consortium, June 2008 – present

Course Organizer, Drug-Induced Liver Disease, North American Conference of Clinical  
Toxicology, Sept.10, 2020

### **AMERICAN COLLEGE OF EMERGENCY PHYSICIANS**

Chair, Section of Toxicology, 1991 - 1993

Member, Section Affairs Committee July 1992 - 1993  
Member, Pediatric Emergency Medicine Committee, 1991 - 1992  
Member, National ACEP Research Committee, 1989 - 1994  
Chairman, Massachusetts ACEP Research Committee, 1985-1986  
Editor, ACEP Toxicology Section Newsletter, 1990 - 1991  
Fellow of the American College of Emergency Physicians, October 1993 - 2001

### **AMERICAN ACADEMY OF CLINICAL TOXICOLOGY**

Immediate Past-President 2000 - 2002  
President, 1998 - 2000  
President-Elect, 1996-1998  
Chair, Annual Meeting Oversight Committee, 1990 - 1991  
Member, Annual Meeting Oversight Committee, 1990 - 1994  
Member, Education Committee, 1989 - 1994  
Chairman, Education Committee, 1990 - 1994  
Course Director, AACT Pharmacokinetics Course, Tucson, AZ, 1990  
Course Director, AACT Pharmacokinetics Course, Toronto, Canada, 1991  
Course Director, AACT Pharmacokinetics Course, New York, NY, 1993  
Member, Board of Trustees, 1991-1994  
Chair, Scientific Review Committee, 1991 - 1994  
Member, Committee on Medical Practice, 1993-1994  
Member, *Ad Hoc* Committee on Position Statements, 1993-1995  
Chair, Silicone Breast Implant Subcommittee, 1994-1996  
Member, Fellowship Committee, 1994 - 1996  
Fellow of the Academy: elected 1993  
Chair, *Ad Hoc* Strategic Planning Committee, 1996 - 1998  
Chair, Finance Committee, 1996 - 1998  
Member, Executive Committee, 1996 - 2002  
Member, Scientific Review Committee, 1990 - Present  
Chair, Planning Committee of the North American Congress of Clinical Toxicology, 2000-2003  
Member, Planning Committee of the North American Congress of Clinical Toxicology, 1998 - 2004  
Delegation Leader, Toxicology Delegation to the Peoples Republic of China (at the Invitation of the P.R.C.), April 2000  
Course Director, Boot Camp on Agents of Nuclear, Biological, and Chemical Terrorism And Warfare, Palm Springs, CA 2002  
Chair – International Relations Committee: 2010 –  
Member – Ethics Committee: 2011 -

**EUROPEAN SOCIETY OF POISON CONTROL CENTERS AND CLINICAL TOXICOLOGISTS**

Member, Scientific Committee, 1998 – 2002  
Abstract Reviewer, 1996 - present

**AMERICAN COLLEGE OF PHYSICIANS**

Editorial Consultant for Physicians Information and Education Resource (PIER), 2005 – 2013

**UNITED STATES FOOD AND DRUG ADMINISTRATION**

Special government Employee 2015 – present  
Consultant, Medication Safety Advisory Committee, 2015 – present  
*Ad hoc* member, Compounding Pharmacy Advisory Committee, 2016  
*Ad hoc* member, Medical Imaging Drugs Advisory Committee, 2016  
*Ad hoc* member, Joint meeting of the Anesthetic and Analgesic Drug Products Advisory and Drug Safety and Risk Management Advisory Committee, 2016 and 2018  
*Ad hoc* member Pediatric Advisory Committee, 2017

**UNITED STATES PHARMACOPEIA**

Member, Clinical Toxicology and Substance Abuse Expert Committee, 2000 – 2008

**10<sup>th</sup> IRANIAN CONGRESS OF TOXICOLOGY** (May 2009)

Member, Scientific Committee

**JOINT AMERICAN – ISRAELI MEDICAL TOXICOLOGY CONFERENCE**

Member, Organizing Committee (2011)

**COLORADO COALITION FOR THE MEDICALLY UNDERSERVED**

Volunteer Physician, 2000 –

**MEDICAL TOXICOLOGY FOUNDATION**

Member, Advisory Board, 2010 – 2016  
Member, Board of Directors, 2016 – present

**COCHRANE COLLABORATION**

Member, 2018 - present

**EDITORIAL ACTIVITIES**

Editor-in-Chief, Toxicological Reviews 2002 – 2006  
Senior Editorial Board, Clinical Toxicology, 1996 – 2012  
Editorial Board, Clinical Toxicology, 2012 - present  
Editorial Board, Current Trends in Drug Therapy, 1987 – 1989  
Assistant editor, Toxicology, Occupational Medicine, Environmental Sciences, Micromedex, Denver, Colorado, 1992 - 1997

Consulting Editor, Genium Publishing Co., 1993 - 1997  
Book review editor, Clinical Toxicology, 2000 – present  
Editorial Board, Hospital Practice, 2009 –present  
Editorial Board. Asia Pacific Journal of Medical Toxicology, 2013 – present

Peer reviewer for:

Academic Emergency Medicine  
Addiction  
American Family Physician  
American Journal of Emergency Medicine  
American Journal of Kidney Diseases  
Annals of Emergency Medicine (designated as a “Senior reviewer” 2011 and 2016)  
Archives of Internal medicine  
Basic and Clinical Pharmacology and Toxicology  
BMC Case Reports in Medicine  
Brain Injury  
British Medical Journal  
Burns  
Clinical Toxicology (designated as Top 1% of Reviewers, 2020)  
Critical Care Medicine  
Disaster Medicine and Public Health Preparedness  
Environment International  
Hospital Practice  
Intensive Care Medicine  
International Journal of Hygiene and Environmental Health  
Journal of the American College of Emergency Physicians Open  
Journal of the American Medical Association  
Journal of Clinical Pharmacokinetics  
Journal of Clinical Psychopharmacology  
Journal of Critical Care  
Journal of Emergency Medicine  
Journal of Medical Toxicology (designated as a “Star reviewer”)  
Journal of the American Medical Association  
New England Journal of Medicine  
Occupational and Environmental Medicine  
Pediatrics  
Pediatrics International  
Saudi Medical Journal  
The Cochrane Collaboration  
The Protein Journal  
Toxicology and Applied Pharmacology  
Toxicological Sciences

**HOSPITAL COMMITTEES**

Human Research IRB, Baystate Medical Center, Springfield, MA, 1984 - 1986

Pharmaceuticals and Therapeutics Committee, University of Colorado Health Science Center, Denver, CO, 1991 - 1993  
Animal Research IRB, Denver General Hospital, Denver, CO, 1991 - 1993  
Human Research IRB, Swedish/Presbyterian Saint Luke's Health Care System, 1994 - 1996  
Continuing Physicians Education Committee, PorterCare Memorial Hospital, 1999 – 2005  
Chair, Continuing Medical Education Committee, Porter Adventist Hospital, 2012 - present

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

American Academy of Clinical Toxicology  
American College of Medical Toxicology  
Asian-Pacific Association of Medical Toxicology  
International Society of Pharmacoepidemiology  
International Society of Toxinology  
Organization of Teratology Information Centers  
Middle East and North Africa Clinical Toxicology Association

### **FEDERAL AVIATION ADMINISTRATION**

Aviation Medical Examiner, 1991 – 1998

### **NATIONAL ACADEMY OF MEDICINE**

Panelist - Guidance on PFAs Testing and Health Outcomes meeting Aug 11,2021

### **INVITED LECTURES** (since 1988)

(University of Colorado System Medical School Lectures and Local Conferences not included).

March 31, 1988 What's New in Acetaminophen Toxicity? Gastroenterology Grand Rounds, Montefiore Hospital, Albert Einstein School of Medicine, Bronx, NY.

April 19,1988 Management of the Acute Toxic Emergency. Family Practice Residency Conference, Poudre Valley Hospital, Fort Collins, CO.

April 26,1988 Management of the Acute Toxic Emergency. Family Practice Residency Conference, Wyoming Medical Center, Casper, WY.

May 3, 1988 Drug Induced Hepatotoxicity. Medical Staff Conference, Midwest City Memorial Hospital, Oklahoma City, OK.

May 4,1988 Acetaminophen Toxicity. Medical Staff Conference, Kaiser Permanente, Denver, CO.

May 11, 1988 Management of the Acutely Poisoned Patient. Southwestern Medical Society, McCook, NE.

May 11, 1988 Acetaminophen Toxicity. Medical Staff Conference, Colby Medical Center, Colby, KS.

May 17, 1988 Cocaine Toxicity. Toxicology Potpourri, Porter Memorial Hospital, Denver, CO.

May 24, 1988 Drug-induced Hepatotoxicity. Medical Staff Conference, Kaiser Permanente, Denver, CO.

June 1, 1988 Management of Acetaminophen Overdoses. Medical Staff Conference, Kaiser Permanente, Denver, CO.

August 31, 1988 Tricyclic Antidepressant Overdoses. Louis Gdahlman Lecture, Rush-Presbyterian- St. Luke's Medical Center, Chicago, IL.

September 7, 1988 Management of Acetaminophen Overdoses. ADA County Medical Society Continuing Education Symposium, Boise, ID.

September 13, 1988 Management of Acetaminophen Overdoses. Conway Memorial Hospital, Conway, AK.

September 14, 1988 Drug Induced Hepatotoxicity . Gastroenterology Conference, University of Arkansas Medical Center, Little Rock, AK.

October 7, 1988 Advances and Controversies in Overdose Management. Practical Therapeutics: 1988 - A Western Regional Symposium, Denver, CO.

October 28, 1988 Management of the Acutely Poisoned Patient. Veterans Administration Hospital Staff Conference, University of Oklahoma Medical Center, Oklahoma City, OK.

October 28, 1988 Advances in the Management of Acetaminophen Toxicity. Medical Residents Conference, University of Oklahoma Medical Center, Oklahoma City, OK.

November 1, 1988 Carbon Monoxide and Hydrogen Sulfide Poisoning. Colorado Safety Institute Hazardous Materials Course, Denver, CO.

February 23, 1989 The Management of the Acutely Poisoned Patient. Emergency Medicine Grand Rounds. University of Oklahoma Medical Center, Oklahoma City, OK.

March 2, 1989 The Emergency Management of The Poisoned Patient. Emergency Medicine Grand Rounds. University of Arkansas Medical Center, Little Rock, AK.

March 2, 1989 The Management of the Poisoned Patient. Department of Medicine, University of Arkansas Medical Center, Little Rock, AK.

March 3, 1989 Hepatotoxins. Gastroenterology Conference. University of Arkansas Medical Center, Little Rock, AK.

March 7, 1989 The Management of the Poisoned Patient. Desert Samaritan Hospital Ski M.E. Conference. Steamboat Springs, CO.

April 19, 1989 Adverse Effects of H-2 Blockers. Pharmacy Conference. St. Joseph Hospital, Denver, CO.

April 26, 1989 Emergency Management of the Poisoned Patient. Northwest Kansas Regional Medical Center, Goodland, KS.

June 7, 1989 Heavy Metal Poisoning. Family Practice Conference, Rose Medical Center, Denver, CO.

June 14, 1989 Mushroom Poisoning. Emergency Medicine Conference, Emergency Medicine Residency, Madigan Army Medical Center, Tacoma, WA.

August 31, 1989 Mushroom Poisoning. Pediatrics Conference, Denver Department of Health and Hospitals, Eastside Health Center.

September 16, 1989 The Role of the Laboratory in the Evaluation of the Poisoned Patient, Intermountain States Seminar, Jackson Hole, WY.

September 28, 1989 Agricultural Hazards. San Louis Valley Medical Society Meeting, Alamosa, CO.

October 28, 1989 Pediatrics Overdoses. Critical Care Symposium, Memorial Hospital, Colorado Springs, CO.

January 23, 1990 The Management of Acute Poisonings - Controversies and Advances in Clinical Toxicology. Desert Samaritan Hospital, Mesa, AZ

March 3, 1990 The Child Substance Abuser. Substance Abuse and Mental Disorder: Concurrent Illness. Center for Interdisciplinary Studies, Denver, CO.

April 18, 1990 The Management of Snake bites. Pediatrics Conference Fitzsimmons Army Medical Center, Denver, CO.

April 19, 1990 The Management of Snake Bites. Office Pediatric Update, The Children's Hospital, Denver, CO.

April 26,1990 Acetaminophen Poisoning. Emergency Medicine Grand Rounds, Medical College of Wisconsin, Milwaukee, WI.

April 27, 1990 Gastrointestinal Decontamination in Drug Overdoses. Section on Emergency Medicine, Wisconsin State Medical Society, Green Bay, WI.

May 5,1990 The Management of Snake Bites. Toxicology and Emergency Medicine Symposium, University of South Carolina, Charleston, SC.

June 12, 1990 Digitalis Intoxication. Medical Grand Rounds. Texas Tech University School of Medicine, Lubbock, TX.

August 28, 1990 The Treatment of Hydrofluoric Acid Burns. Hydrofluoric Acid Manufacturer Association - Medical Group, Hilton Head, SC.

December 6, 1990 Digitalis Intoxication. Porter Memorial Hospital, Denver, CO.

March 9, 1991 Lead Poisoning. Toxicology Grand Rounds, Medical College of Wisconsin, Milwaukee, WI.

March 9, 1991 Hepatic Effects of Drugs and Chemicals. Pharmacology Conference, Medical College of Wisconsin, Milwaukee, WI.

August 9, 1991 Digoxin Toxicity. Medical Grand Rounds, Crawford Long Memorial Hospital of Emory University, Atlanta, GA.

August 9,1991 Digoxin Toxicity. Joint Emergency Medicine/Medicine Conference, Grady Memorial Hospital, Atlanta, GA.

September 19, 1991 Antidotal Use of Pyridoxine. World Health Organization International Symposium of Management of Poisoning, Stockholm, Sweden.

January 16,1992 Evaluation and Management of Childhood Lead Poisoning. Pediatric Update for the Practicing Physician. The Children's Hospital, Denver, CO.

February 12,1992 Childhood Lead Poisoning. Pediatrics Grand Rounds, Denver General Hospital, Denver, CO.

April 19, 1993 Over-Treating Non-Diseases (Moderator), Clinical Forum, Kansas City, KS.

April 19, 1993 Hyperbaric Oxygen: ED Applications (Panelist). Clinical Forum, Kansas City, KS.

April 19, 1993 New Antidotes. Clinical Forum, Kansas City, KS.

April 25, 1993 Chemical Agents. Essential Topics in Emergency Medicine, Denver, CO.

April 27, 1993 Approach to the Poisoned Patient. Essential Topics in Emergency Medicine, Denver, Co.

October 12, 1993 Controversies in Gastrointestinal Decontamination. American College of Emergency Physicians Scientific Assembly, Chicago, IL.

October 12, 1993 Re-Assessing the "Coma Cocktail" Myths in the Management of Altered Mental Status. American College of Emergency Physicians Scientific Assembly, Chicago, IL.

October 13, 1993 Diagnosis and Management of the Hemodynamically Unstable Poisoned Patient. American College of Emergency Physicians Scientific Assembly, Chicago, IL.

March 1, 1994 Antidotes and Antagonists. Winter Symposium, Tucson, AZ.

March 1, 1994 Cardiovascular Toxins: When the Patient is Hypotensive. Winter Symposium, Tucson, AZ.

April 23, 1994 Update on the Management of the Overdose Patient. Clinical Forum. Boston, MA.

April 23, 1994 Common Myths and Errors in Toxicology. Clinical Forum, Boston, MA.

September 12, 1994 Myths and Errors in Medical Toxicology. American College of Emergency Physicians Scientific Assembly, Orlando, FL.

September 12, 1994 Cardiotoxic Drug Overdoses. American College of Emergency Physicians Scientific Assembly, Orlando, FL.

September 13, 1994 Update on Drugs of Fashion and Abuse. American College of Emergency Physicians Scientific Assembly, Orlando, FL.

September 21, 1994 Pulmonary Toxicology. American College of Medical Toxicology Board Review Course, Salt Lake City, UT.

September 21, 1994 Hydrocarbon Toxicology. American College of Medical Toxicology Board Review Course, Salt Lake City, UT.

September 22, 1994 The Toxicology of Central Nervous System Active Agents. American College of Medical Toxicology Board Review Course, Salt Lake City, UT.

September 22, 1994 Principles of Pharmacology. American College of Medical Toxicology Board Review Course, Salt Lake City, UT.

September 22, 1994 Toxicology of Vitamins and Minerals. American College of Medical Toxicology Board Review Course, Salt Lake City, UT.

October 25, 1994 Management of Toxicologic Emergencies in the Workplace. State of the Art Conference, American College of Occupational and Environmental Medicine, Denver, CO.

April 9, 1995 Cardiotoxic Drugs. Clinical Forum, Seattle, WA.

April 9, 1995 How Safe are the New Antidepressants? Clinical Forum. Seattle. WA.

May 10, 1995 Toxic Alcohols and Glycols. Essential Topics in Emergency Medicine, San Francisco, CA.

May 10, 1995 Toxicity of Antidepressant Drugs. Essential Topics in Emergency Medicine, San Francisco, CA.

May 10, 1995 Update on Drugs of Fashion and Abuse. Essential Topics in Emergency Medicine, San Francisco, CA.

May 18, 1995 What Should We Do on Saturday Night? - Update on Drugs of Fashion and Abuse. Carolinas Medical Center Spring Symposium, Charlotte, NC.

May 19, 1995 How the Textbooks Lie - Common Myths and Errors in Medical Toxicology. Carolinas Medical Center, Spring Symposium, Charlotte, NC.

June 27, 1995 Toxicological Effects of Hazardous Materials - Approach to the Patient with a known Toxic Exposure. National Environmental Health Association, Denver, CO.

September 11, 1995 Update on Drugs of Fashion and Abuse, American College of Emergency Physicians Scientific Assembly Washington, DC.

September 11, 1995 Common Myths and Errors in Medical Toxicology, American College of Emergency Physicians Scientific Assembly, Washington, DC.

September 12, 1995 Cardiotoxic Drug Poisoning, American College of Emergency Physicians Scientific Assembly, Washington, DC.

September 13, 1995 Toxic Alcohols & Glycols, Emergency Medicine Grand Rounds, University of Massachusetts Medical Center, Worcester, MA.

January 17, 1996 How the Textbooks lie-myths and errors in Medical Toxicology. University of Illinois - Update in Emergency Toxicology, Las Vegas, NV.

February 7, 1996 Toxicology - Flying High of a Different Sort. 22<sup>nd</sup> Annual Rocky Mountain Conference on Emergency Medicine, Breckenridge, CO.

February 7, 1996 New Street Drugs. 22<sup>nd</sup> Annual Rocky Mountain Conference on Emergency Medicine, Breckenridge, CO.

March 20, 1996 Just when you thought it was safe - things that can hurt you when you leave the Bronx. Emergency Medicine Grand Rounds, Lincoln Hospital and Medical Center, Bronx, NY.

May 23, 1996 Case studies in Medical Toxicology. Essential topics in Emergency Medicine, Kansas City, MO.

May 24, 1996 Street Drugs. Essential topics in Emergency Medicine, Kansas City, MO

May 24, 1996 Toxic Alcohols and Glycols. Essential topics in Emergency Medicine, Kansas City, MO.

July 2, 1996 Asbestos - A paradigm of airborne toxins. National Environmental Health Association, Chicago, IL.

September 8, 1996 Cardiotoxic overdoses. American College of Emergency Physicians Scientific Assembly, New Orleans, LA.

September 8, 1996 Drugs of Abuse: In the name of "Pleasure". American College of Emergency Physicians Scientific Assembly, New Orleans, LA.

October 12, 1996 The silicone syndrome: fact or fantasy? American Academy of Clinical Toxicology, Occupational and Environmental Toxicology Symposium. Portland, OR.

November 11, 1996 The silicone syndrome: science or fantasy? American College of Toxicology, symposium on silicone breast implants, King of Prussia, PA.

January 19, 1997 Little People - Big Problems: Issues in Pediatric Toxicology. 23<sup>rd</sup> Annual Rocky Mountain Conference on Emergency Medicine, Vail, CO.

March 20, 1997 Cocaine and the Cardiovascular System - Intuition versus Empiricism. Medical Grand Rounds, Beth Israel Hospital, Harvard Medical School, Boston, MA. (Visiting Professor)

March 21, 1997 (Visiting Professor Lecture) New Advances in the Treatment of Toxic Alcohols. Emergency Medicine Conference, Beth Israel Hospital, Harvard Medical School, Boston, MA.

July 4, 1997 Should 4 Methylpyrazole now replace Ethanol in Methanol and Ethylene Glycol Poisoning? European Association of Poisons Centres and Clinical Toxicologists, Oslo, Norway. (Invited Keynote)

September 12, 1997 Hepatotoxic Herbs. American College of Medical Toxicology Symposium on Alternative Medicine. St. Louis, MO.

September 26, 1997 The Serotonin Syndrome. University of South Carolina, Sixth Annual Intensive Review of Emergency Medicine, Charleston, SC.

September 26, 1997 Mushroom Poisoning. University of South Carolina, Sixth Annual Intensive Review of Emergency Medicine, Charleston, SC.

October 16, 1997 The Treatment of Ethylene Glycol and Methanol Poisoning. American Academy of Clinical Toxicology Symposium, Ethylene Glycol Poisoning Treatment Options in the New Millennium, San Francisco, CA.

October 16, 1997 Drugs of Abuse - In The Name of Pleasure. American College of Emergency Physicians Scientific Assembly, San Francisco, CA.

October 17, 1997. Cardiotoxic Overdoses. American College of Emergency Physicians Scientific Assembly, San Francisco, CA.

October 18, 1997. Stump the Toxicologist (panelist). American College of Emergency Physicians Scientific Assembly, San Francisco, CA.

January 24, 1998. Drugs of Abuse. Approaches to the Critically Ill Patient. 20<sup>th</sup> Annual Winter Symposium, St. Mary's Hospital Regional Medical Center, Grand Junction, CO.

January 24, 1998. Common Poisonings. Approaches to the Critically Ill Patient. 20<sup>th</sup> Annual Winter Symposium, St. Mary's Hospital Regional Medical Center, Grand Junction, CO.

February 9, 1998. Poisonings You Should Know About in the Wintertime: Ethylene Glycol and Methanol. Illinois Poison Center Winter Toxicology Conference, Chicago, IL.

March 25, 1998. New Herb Induced Hepatotoxic Syndromes. European Association of Poison Control Centers and Clinical Toxicologists, Zurich, Switzerland. (Invited Keynote)

March 26, 1998. A Comparison of the Use of 4-MP (Fomepizole) and Ethanol in the Treatment of Ethylene Glycol and Methanol Poisoning. European Association of Poison Control Centers and Clinical Toxicologists, Zurich, Switzerland. (Invited Keynote)

September 13, 1998. Phen-Fen: The History. American Academy of Clinical Toxicology Symposium: Phen-fen and Beyond: The Health Effects of Chronic Use Serotonergic Agents, Orlando, FL.

September 14, 1998. Ethanol versus Fomepizole for Ethylene Glycol and Methanol Poisoning. American Academy of Clinical Toxicology, The Year in Clinical Toxicology Program, Orlando, FL.

October 12, 1998. Common Myths and Errors in Medical Toxicology. American College of Emergency Physicians Scientific Assembly, San Diego, CA.

October 13, 1998. Case Presentations in Toxicology: Stump the Toxicologist (Panelist) American College of Emergency Physicians Scientific Assembly, San Diego, CA.

October 14, 1998. Drugs of Abuse: What's Hot, What's Not. American College of Emergency Physicians Scientific Assembly, San Diego, CA.

December 7, 1998. Antidotes and Alcohols: Has Fomepizole Made Ethanol an Obsolete Therapy? American Society of Health Systems Pharmacists, Las Vegas, NV.

January 13, 1999. The Times They are a Changing: New Approaches to the Treatment of Ethylene Glycol and Methanol Poisoning. University of Washington Medical Center, Emergency Medicine Grand Rounds, Seattle, WA.

June 25, 1999. Gulf War Syndrome and Organophosphates: Is There a Connection? European Association of Poison Centres and Clinical Toxicologists, Trinity College, Dublin, Ireland (Invited Keynote).

September 22, 1999. Interpretation of Toxicology Testing Results in aircraft Accident Investigations: General Testing Issues and Alcohol. General Aviation Air Safety Investigators Advanced Technical Workshop, Wichita, KS.

September 24, 1999. A Toxicologist's Treasure Trove: Common Dietary Supplements and Herbal Medications, Montrose Fall Clinics, Montrose, CO.

September 24, 1999. Drugs of Abuse: What's Hot and What's Not?, Montrose Fall Clinics, Montrose Fall Clinics, Montrose, CO.

May 4, 2000. Pitfalls and Paradoxes in the Assessment of Serotonergic Drug Neurotoxicology - Lessons Learned from MDMA. European Association of Poison Centres and Clinical Toxicologists, Amsterdam, Netherlands (Invited Keynote).

July 11, 2000. Fomepizole (4-Methylpyrazole) Treatment of Ethylene Glycol and Methanol Poisoning: The META Trial. Recent Issues in Clinical Toxicology - Antidotes in Depth. Pavia, Italy.

September 15, 2000. Fomepizole - Our Newest Antidote. North American Congress of Clinical Toxicology, Tucson, AZ.

September 19, 2000. Interpretation of Post-Mortem Ethanol Levels. North American Congress of Clinical Toxicology, Tucson, AZ.

September 19, 2000. Idiopathic Environmental Intolerance (MCS): Confessions of a Medical Toxicologist. American Industrial Hygiene Association Annual Technical Conference, Golden, CO.

September 29, 2000. Ethylene Glycol and Methanol Poisoning. Emergency Medicine Grand Rounds. Wolford Hall/Brook Army Medical Center Emergency Medicine Residency Program, San Antonio, TX.

September 29, 2000. Case Conference. Wolford Hall/Brook Army Medical Center Emergency Medicine Residency Program, San Antonio, TX.

December 5, 2000. Fomepizole (4-Methylpyrazole) Treatment of Ethylene Glycol and Methanol Poisoning: The META Trial. Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, Newcastle, Australia.

December 5, 2000. Pitfalls and Paradoxes in the Assessment of Serotonergic Drug Neurotoxicity - Lessons Learned from MDMA. Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, Newcastle, Australia.

January 22, 2001. Methamphetamines and Ecstasy. Grand Rounds. St. Mary's Hospital. Grand Junction, CO.

January 23, 2001. Methamphetamines for Physicians. Winter School on Addictive Behavior. Grand Junction, CO.

May 18, 2001. The clinical Toxicology of gold: How Much of It We See, How Little We Know. European Association of Poison Centres and Clinical Toxicologists, Barcelona, Spain.

October 5, 2001. Fulminant Hepatic Failure in the Poisoned Patient. American College of Medical Toxicology Symposium on Critical Care Toxicology, Montreal, Canada

May 22, 2002. Plague: A Potential Instrument of Biological Warfare and Terrorism. European Association of Poisons Centres and Clinical Toxicologists Continuing Education Course, Lisbon, Portugal.

May 24, 2002. Treatment Strategies for Toxin-Induced Liver Injury. European Association of Poisons Centres and Clinical Toxicologists, Lisbon, Portugal.

September 26, 2002. Cardiotoxic Poisonings. American Association of Poison Control Centers Symposium for Specialists in Poison Information.

September 28, 2002. The Clinical Toxicology of Thimerosal in Vaccines. The Year in Toxicology Program, North American Congress of Clinical Toxicology, Palm Springs, CA.

September 29, 2002. Plague as a Bioweapon. Boot Camp on Agents of Nuclear, Chemical, and Biological Terrorism and Warfare. North American Congress of Clinical Toxicology. Palm Springs, CA.

October 10, 2002. Update on the Treatment of Methanol and Ethylene Glycol Poisoning. Toxicology at the Cutting Edge. Children's Hospital of Michigan. Detroit, MI.

February 21, 2003. Gut Decontamination in Poisonings: What the Experts Currently Do. Emergency Medicine for the Critically Ill and Injured Program, Orlando Regional Healthcare System, Orlando, FL.

February 21, 2003. Diagnosis and Management of Ethylene Glycol and Methanol Poisoning: The Rules Have Changed. Emergency Medicine for the Critically Ill and Injured Program. Orlando Regional Healthcare System, Orlando, FL.

February 21, 2003. Update on Drugs of Fashion and Abuse. Emergency Medicine for the Critically Ill and Injured Program. Orlando Regional Healthcare System, Orlando, FL.

May 20, 2003. Solvent Encephalopathy – A Critical Appraisal. European Association of Poisons Centres and Clinical Toxicologists, Neurotoxicology Course, Rome, Italy.

May 21, 2003. Fomepizole. European Association of Poisons Centres and Clinical Toxicologists, Symposium on Antidotes, Rome, Italy.

October 13, 2003. How Fomepizole Has Revolutionized the Treatment of Ethylene Glycol and Methanol Poisoning. American College of Emergency Physicians, Boston, MA.

April 21, 2004. Fomepizole (Antizole) for the Treatment of Ethylene Glycol and Methanol Toxicity. Pennsylvania Chapter of American College of Emergency Physicians Annual Scientific Assembly, Philadelphia, PA.

May 2, 2004. Controversies in the Pathophysiology and Management of Acute Hydrofluoric Acid Exposures. European Association of Poisons Centres and Clinical Toxicologists , Strasbourg, France.

June 30, 2004. Fomepizole Clinical Trials: Experience of the Lead (Principal) Investigator. Russian Institute of Toxicology, Workshop on Antidotes to Highly Toxic Substances, St. Petersburg, Russia.

July 13, 2004. Derivation of a Chemical-Specific Adjustment Factor for Ethylene Glycol. International Union of Toxicology, Tampere, Finland.

September 10, 2004. Idiosyncratic Hepatotoxicity. North American Congress of Clinical Toxicology. Seattle, Washington.

September 29, 2004. Why are Cyanide and Fumigants so Worrisome? Chemical Agents of Opportunity for Terrorism Program by the American College of Medical Toxicology, National Center for Environmental Health, and the Agency for Toxic Substances and Disease Registry. Breckenridge, CO.

October 2, 2004. Industrial Toxins – Dust and Gases. American College of Medical Toxicology Board Review Course, Dallas, TX.

May 11, 2005. Professional Societies and Evidence-Based Toxicology (Louis Roche lecture), European Association of Poisons Centres and Clinical Toxicologists, Berlin, Germany.

May 13, 2005. Observational Versus Interventional Trials in Clinical Toxicology: Hard Lessons Learned from Investigations on the Clinical Benefits and Adverse Effects of Hormone Replacement Therapy, European Association of Poisons Centres and Clinical Toxicologists, Berlin, Germany.

March 2, 2006. The Rising Toll of Parkinsonism: Are Environmental Factors Responsible? American College of Medical Toxicology, Spring Course, Phoenix, AZ.

September 16, 2006. Analytical and Forensic Toxicology, American College of Medical Toxicology Board Review Course, Dallas, TX.

May 4, 2007. Similar But Not Quite The Same: Manganism and Parkinson's Disease, European Association of Poisons Centers and Clinical Toxicologists, Athens, Greece.

September 16, 2006. Industrial Toxins and Irritants, American College of Medical Toxicology Board Review Course, Dallas, TX.

July 17, 2007. Preservatives in Vaccines: A Cause of Autism?, International Congress of Toxicology XI, Montreal, Canada.

March 25, 2008. Clinical Effects of Methamphetamine and Meth Lab Exposures, Los Angeles County Department of Public Health, Los Angeles, California.

March 26, 2008. Clinical Effects of Methamphetamine and Meth Lab Exposures, Los Angeles County Department of Public Health, Los Angeles, California.

May 6, 2008. Of Paradigms and Paradoxes: Unraveling the Basis of Chlorine Toxicity, Occupational and Environmental Medicine Course, European Association of Poisons Centres and Clinical Toxicologists, Seville, Spain

May 21, 2008. New and Emerging Therapies in the Treatment of the Poisoned Patient, Emergency Medicine Grand Rounds, University of Massachusetts Medical Center, Worcester, MA. (Visiting Professor)

May 21, 2008. The Zen of Clinical Toxicology, Medical toxicology Conference, University of Massachusetts Medical Center, Worcester, MA (Visiting Professor)

September 30, 2008. Analgesic Overdoses, Medical Grand Rounds, San Raphael Hospital, Trinidad, CO

October 12, 2008. The toxicology of industrial chemicals, American College of Medical Toxicology Board Review Course, Cincinnati, OH

October 13, 2008. Epidemiology and Public Health, American College of Medical Toxicology Board Review Course, Cincinnati, OH

November 5, 2008. Pulmonary Toxicology, Symposium on Medical Toxicology, Bach Mai Hospital, Hanoi, Viet Nam

November 6, 2008. Update on Mercury Toxicology, Symposium on Medical Toxicology, Bach Mai Hospital, Hanoi, Viet Nam

December 5, 2008. Analgesic Overdoses, Medical Grand Rounds, Julesburg Hospital, Julesburg, CO

March 26, 2009. If you think cocaine is bad, wait until you hear about methamphetamine, Drugs of Abuse Conference, San Juan, PR

April 13, 2009. Medical effects of methamphetamine. Los Angeles, California Dept of Health, School Medical Personnel methamphetamine course, Los Angeles, CA

April 22, 2009. Medical effects of methamphetamine. Tribal Nation Methamphetamine Summit, Fallon, NV

April 29, 2009. Analgesic Toxicity. Medical Grand Rounds, Philadelphia Methodist Hospital, Jefferson Medical College, Philadelphia, PA (Visiting Professor)

May 15, 2009. Should chelation therapy ever be considered for the treatment of manganese exposure? European Association of Poison Control Centres and Clinical Toxicologists. Stockholm, Sweden. (Invited Keynote)

July 16, 2009. Analgesic Toxicity. Ground Rounds, Sterling Regional Medical Center, Sterling, CO

July 31, 2009. Analgesic Toxicity. Ground Rounds, St Thomas Moore Hospital, Canon city, CO

August 18, 2009. Medical Effects of Methamphetamine . US CDC (ATSDR)/ACMT Course on the Medical Effects of Clandestine Methamphetamine laboratories, Pala, NV

Aug 19, 2009. Analgesic Toxicity. Ground Rounds, Valley View Medical Center, Glenwood Springs, CO.

Sept 10, 2009. Is Paraquat Exposure a Risk Factor for the Development of Parkinson's Disease? Seventh Conference on Toxicology in the Developing world, Sun City, South Africa.

Nov 6, 2009. Analgesic Toxicity. Grand Rounds. Arkansas Valley Regional Medical Center, La Junta, CO.

Dec 2, 2009. Analgesic Toxicity. Grand Rounds. Estes Park Regional Medical Center, Estes Park, CO.

April 27, 2010. Thimerosal and Autism. Visiting Professor Lectureship. U.S. Food and Drug Administration. Silver Springs, MD.

April 28, 2010. Mercury Toxicity. U.S. Food and Drug Administration course on Metal impurities in Pharmaceuticals. Silver Spring, MD.

May 12, 2010. A Systematic Review of the Use of Intravenous Lipid therapy in the Management of Poisoned Patients. Presented at the European Association of Poisons Centres and Clinical Toxicologists, Bordeaux, France. (Invited keynote)

Sept 13, 2010. The toxicology of industrial chemicals, American College of Medical Toxicology Board Review Course, Cincinnati, OH

Sept 13, 2010. Epidemiology and Public Health, American College of Medical Toxicology Board Review Course, Cincinnati, OH

Nov 17, 2010. A Systematic Review of the Use of Intravenous Lipid therapy in the Management of Poisoned Patients. Presented at Joint American-Israeli Medical Toxicology Conference, Haifa, Israel

Sept 25, 2011. Junk Science and Professional Responsibility. American Academy of Clinical Toxicology Career Achievement Award Lectureship. Presented at the North American congress of Clinical Toxicology, Washington, DC.

Feb 29, 2012. The Use and Abuse of Chelation Therapy in Autism Spectrum Disorders. Presented at The use and Abuse of Metal Chelation Therapy conference. US Centers for Disease Control and Prevention, Atlanta, GA

Sept 10, 2012. The toxicology of industrial chemicals, American College of Medical Toxicology Board Review Course, New Orleans, LA

Sept 10, 2012. Public Health and the use of epidemiology in toxicology, American College of Medical Toxicology Board Review Course, New Orleans, LA.

Oct 1, 2012. Silicone, Science and Silliness: The Pseudoscientific Saga of Breast Implants and The Women Who Need Them. American College of Medical Toxicology Symposium on Vanity and Vice – Toxicology in the Sin City. Las Vegas, NV.

March 15, 2013. Toxicological Evaluation and Treatment of Patients with Metal Prostheses. American College of Medical Toxicology Annual Scientific Meeting, San Juan, Puerto Rico.

May 30, 2013. Water based decontamination solutions are the optimal initial treatment for corrosive dermal injuries. European Association of Poisons Centres and Clinical Toxicologists, Copenhagen, Denmark.

Sept 27, 2013. Adverse renal effects of medications. American Academy of Clinical Toxicology Symposium on Adverse Effects of Medications, Atlanta, GA.

Sept 30, 2013. Carpe' Diem – Advice to Young Toxicologists. American College of Medical Toxicology Ellenhorn Award, North American Congress of Clinical Toxicology, 2013, Atlanta, GA.

Nov 12, 2013. What is causation? American College of Medical Toxicology Forensic Toxicology course, Baltimore, MD.

March 25, 2014. Clinical translational research: a bedside to bench tale. Society of Toxicology, Phoenix, AZ.

Sept 21, 2014. Epidemiology and Public Health. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

Sept 21, 2014. Teratology. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

Sept 21, 2014. Industrial Toxins/Inhalants. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

Feb 18, 2015. The Intersection of Medical and Forensic Toxicology, American Academy of Forensic Sciences, Orlando, FL.

March 24, 2015. Cardiovascular, neurological, and thyroid effects of cobalt toxicity. Society of Toxicology, San Diego, FL.

Dec 10, 2015. The Pitfalls and Perils of back extrapolations. American College of Medical Toxicology Program on Forensic Toxicology, Denver, CO.

Sept 29, 2016. Teratogens and Reproductive Toxicology. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

Sept 30, 2016. Inhalants and Industrial Toxicology. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

Sept 30, 2016. Epidemiology and Public Health. American College of Medical Toxicology, Board Review course, Salt lake City, UT.

October 24, 2016. Fulfilling Data Gaps in Clinical Toxicology: The Evolution and Development of the Toxicology Investigators Consortium (Toxic) – A potentially Valuable International Research Tool or Research Colonialism? U.S. Centers for Disease Control and Prevention, Atlanta, GA

October 25, 2016. The Zen of Toxic Alcohols. Emergency Medicine Grand Rounds, Emory University, School of Medicine, Grady Memorial Hospital. (Visiting Professor)

April 26, 2017. Carbon Monoxide Neurotoxicity. American Occupational Health Conference. Denver, CO

April 1, 2018. A life without epidemiology is not a life worth living: toxicologists and the very curious relationship between talc exposure and ovarian cancer. American College of medical Toxicology, Annual Scientific Meeting, Washington, DC.

Sept 5, 2018. Reproductive Toxicology and Teratology, American College of Medical Toxicology, Board Review course, Chicago, IL.

Sept 6, 2018. The Crashing Tox Patient. Total Tox course, Chicago, IL.

Sept 6, 2018. Industrial Toxins. American College of Medical Toxicology Medical Toxicology, Board Review Course, Chicago, IL.

Sept 6, 2018. Epidemiology and Public Health. American College of Medical Toxicology, Board Review course, Chicago, IL.

Sept 23, 2019. We are the World: Insights and Controversies from International Methanol Outbreaks. North American Congress of Clinical Toxicology, Nashville, TN.

Aug 26, 2020. Reproductive Toxicology and Teratology, American College of Medical Toxicology, Virtual Board Review course.

Aug 26, 2020. Industrial Toxins. American College of Medical Toxicology Medical Toxicology, Virtual Board Review Course.

Aug 27, 2020. Carcinogens and Carcinogenesis. American College of Medical Toxicology Medical Toxicology, Virtual Board Review Course.

Aug 28, 2020. Epidemiology and Public Health. American College of Medical Toxicology, Virtual Board Review course.

Sept 10, 2020. From Alcohols to APAP: The Role of Fomepizole in the Management of a Acetaminophen Toxicity. North American Congress of Clinical Toxicology. Virtual symposium of drug-induced liver disease.

March 15, 2021. Clinical Presentation of Synthetic Cannabinoid Exposure and the US Experience. Society of Toxicology, Virtual Annual Scientific Meeting.

March 29, 2021. Methanol Poisoning. Middle East and North Africa Clinical Toxicology Association, Virtual Annual Scientific Meeting.

April 1, 2021. The Toxicology Investigators Consortium. American College of medical Toxicology Virtual Annual Scientific Meeting.

April 7, 2022. Hardly Heroin – The Mysterious Changing Face of Illicit Drug Use in the US. Texas Tech University poisons and Thrills that Kill annual conference.

May 14, 2022. Should a Registry similar to ToxIC be set up in the Middle East-North Africa Region? Middle East and North Africa Clinical Toxicology Association, Muskat, Oman.

August 23, 2022. Reproductive Toxicology and Teratology, American College of Medical Toxicology, Virtual Board Review course.

August 24, 2022. Industrial Toxins. American College of Medical Toxicology Medical Toxicology, Virtual Board Review Course.

August 25, 2022. Carcinogens and Carcinogenesis. American College of Medical Toxicology Medical Toxicology, Virtual Board Review Course.

August 26, 2022. Epidemiology and Public Health. American College of Medical Toxicology, Virtual Board Review course.

December 1, 2022. The Secret life of the Illicit Drug Supply in the US. Addiction Medicine Grand Rounds. National institute on Drug Abuse, National Institutes of Health.

### **CONSULTING: Federal Government**

US Department of Health and Human Services

US Department of Justice.

US Centers for Disease Control and Prevention (with secret security clearance)

Member, US Delegation, Workshop on antidotes to Highly Toxic Chemical Substances, sponsored by US Department of State. Pushkin, Russia, 2004

US Food and Drug Administration

### **CONSULTING: State and Local Government**

Adams County District Attorneys Office

Arapahoe County District Attorneys Office

Boulder County District Attorneys Office

City and County of Aurora, Colorado

Colorado Regional Transportation District

Office of the Attorney General, State of Colorado

State of Oregon, Medical License Board

### **CONSULTING: Non-Profit Organizations**

Brown University

Cornell Weill Medical College

The Cochrane Collaboration

Institute for the Treatment of Poisonous Snakebites

Mt Sinai School of Medicine

PSI Foundation

Michael Smith Foundation for Health Research

University of Arizona, College of Medicine

University of Indiana, School of Medicine

University of Massachusetts

University of Calgary  
University of California, San Diego  
University of Connecticut, School of Medicine  
World Health Organization

**PUBLICATIONS** (Letters, books, monographs, book chapters, original scientific papers, and abstracts listed separately)

1. Brent J. Snakebites. Audio Digest - Emergency Medicine, Vol. 7, July 2, 1990.
2. Banner W, et al: What's in A Name? - Regional Toxicology Treatment Centers - Editorial, J. of Toxicol-Clin.Tox.31:219-220, 1993.
3. Horowitz et al: Jin Bu Huan Toxicity in Children - Colorado, 1993. Morbidity and Mortality Weekly Report 42: 633-635, 1993.
4. Kulig K, et al: Severe Acute Respiratory Illness Linked to Use of Shoe Sprays - Colorado, November 1993. Morbidity and Mortality Weekly Report 42: 886-887, 1993.
5. Brent J: Are Activated Charcoal -N- Acetylcysteine Interactions of Clinical Significance? Invited Editorial. Ann Emerg. Med. 22: 1860-1862, 1993.
6. Brent J: Could It Be .... Could This Really Be Science? J Toxicol-Clin Toxicol. 32:609-611, 1994.
7. Brent J: Drugs of Fashion and Abuse. Audio Digest - Emergency Medicine Vol. 12, March 6,1995.
8. Brent J, et al: Letter to the Editor. Immunological Investigations 26:505-507, 1997.
9. Brent J: Antidotes and Alcohols: Has Fomepizole Made Ethanol an Obsolete Therapy? Internet Journal of the American College of Medical Toxicology. 1, 1998. (Invited Editorial).
10. Brent, J, et al: Introduction to the American Academy of Clinical Toxicology - European Association of Poisons Centres and Clinical Toxicologists Position Statement and Practice Guidelines on the Use of Multi-Dose Activated Charcoal in the Treatment of Acute Poisoning. J Toxicol-Clin Toxicol 17:729, 1999.
11. Brent J: Toxicologists and the Assessment of Risk: The Problem with Mercury. J Toxicol – Clin Toxicol 39:707-710, 2001. (Invited Commentary)

12. Brent J: Forward for Occupational, Industrial, and Environmental Toxicology. 2<sup>nd</sup> Edition, Greenberg, M et al (eds), Elsevier, 2003.
13. Vale A, Brent J: Toxicological Reviews – A new review journal devoted to human toxicology (Editorial). *Toxicol Reviews* 22:1, 2003.
14. Brent J: Toxic Terror – Assessing Terrorist Use of Chemical and Biological Weapons. (Book Review) *J Toxicol – Clin Toxicol* 41:893, 2003.
15. Brent J: The Human Toxicology of Polychlorinated Biphenyls: 209 Isomers in Search of a Disease. *Toxicol Reviews* 22:201-202, 2003 [Editorial].
16. Brent J: The Clinical Toxicology of GHB – An Introduction. *Toxicol Reviews* 23:1, 2004.
17. Brent J: Greenberg’s Text Atlas of Emergency Medicine. (Book Review) *Clin Toxicol* 43:309, 2005.
18. Brent J: Uneasy Alchemy – Citizens and Experts in Louisiana’s Chemical Corridor Disputes, MIT Press, Cambridge, MA. (Book Review). *Clin Toxicol*, 44:96, 2006.
19. Brent J: What Does the Present State of Knowledge Tell Us about the Potential Role of Hyperbaric Oxygen Therapy for the Treatment of Carbon Monoxide Poisoning? *Toxicol Reviews* 24:1,2006. [Editorial]
20. Brent J: Goldfrank’s Toxicologic Emergencies, Eighth Edition (Invited Book Review). *Crit Care Med* 35:1, 2007.
21. Brent J: Principles and Practice of Toxicology in Public Health (Invited Book Review). *J Amer Med Assoc* 300: 2554-2555, 2008.
22. Brent J: Poisoned patients are different – Sometimes fat is a good thing (Invited editorial). *Crit Care Med* 37: 1157-1158, 2009.
23. Brent J: Medical Toxicology of Natural Substances: Foods, Fungi, Medicinal Herbs, Plants, and Venomous Animals. (Invited Book Review) *J Amer Med Assoc*. 302: 443, 2009.
24. Brent J: Tobacco or Health?: Physiological and Social Damages Caused by Tobacco Smoking, 2nd ed. (Invited Book Review) *J Amer Med Assoc* 304: 2419, 2010.
25. Brent J and Abdollahi: The major role of toxicology societies in global collaborations – a call to action. *DARU J of Pharmaceutical Sciences* 20: 11, 2012.
26. Brent J: Lessons learned from yet another episode of diethylene glycol poisoning. It happened before and it happened again. *JAMA Intern Med* 174: 918 – 919, 2014

27. American College of Medical Toxicology (Brent J - co-author): Position Statement: Safety Issues Regarding Prescription Fentanyl Products. *J Med Toxicol* 12:211 -212, 2016.
28. American College of Medical Toxicology (Brent J - co-author): Position Statement: The Use of Methadone as an Analgesic. *J Med Toxicol* 12:213 -215, 2016.
29. Allen SL et al.: An appeal for the integrity of science and public policy. *Toxicol* 371: 1-11, 2016.
30. American College of Medical Toxicology (Brent J – co-author): Position Statement: Duration of Intravenous Acetylcysteine Therapy Following Acetaminophen Overdose. *J Med Toxicol* 12: 126 – 127, 2017.
31. American College of Medical Toxicology (Brent J – co-author): Position Statement: Guidance for the Use of Intravenous Lipid Emulsion. *J Med Toxicol* 13: 124 – 125, 2017.
32. American College of Medical Toxicology (Brent J – co-author): Position Statement: Determining brain death in adults after drug overdose. *J Med Toxicol* 13: 271 – 273, 2017.
33. American College of Medical Toxicology (Brent J – co-author): Position Statement: ACMT recommends against use of post-chelator challenge urinary metal testing. *J Med Toxicol* 13: 352 – 354, 2017.
34. McKinney P et al. Zinc chloride ingestion in a child: exocrine pancreatic insufficiency. *Ann Emerg Med* 25: 562, 1995.
35. Ruha M et al. Criminalization of abortion will lead to increased poisoning illnesses and deaths. *J of Med Toxicol (Commentary) J Med Toxicol* 18:185 – 186.
36. Brent J and Weiss ST. The opioid crisis – not just opioids anymore. (Invited Commentary) *J Amer Med Assoc Open* *Published on line ahead of print.*

## **LETTERS**

37. Brent J, et al: Dosage of Acetylcysteine in Acetaminophen Poisoning - Letter to the editor. *Pediatrics* 82:674, 1988.
38. Bender PR, Brent J, and Kulig K: Cardiac Arrhythmias During Theophylline Toxicity - Letter to the Editor. *Chest* 100:884-885, 1991.
39. Brent J, et al: The Paradoxical Anticonvulsive and Awakening Effect of High-Dose Pyridoxine Treatment for Isoniazid Intoxication - Letter to the Editor, *Arch. Int. Med.* 152:2347, 1992.

40. Brent J, et al: The Paradoxical Anticonvulsive and Awakening Effect of High-Dose Pyridoxine Treatment for Isoniazid Intoxication - Letter to the Editor, Arch. Int. Med. 152:2347, 1992.
41. McKinney P, et al: Corneal Abrasions Secondary to Activated Charcoal Therapy- Letter To The Editor, Am J Emerg Med. 11: 562, 1993.
42. McKinney P et al: The Fax Machine: A New Method of Plant Identification - Letter To The Editor, J of Toxicol - Clin. Tox. 31: 663-665, 1993.
43. Brent J, Kulig K, and Rumack BH: Management of Methanol Poisoning - Letter to the Editor. J Peds 19:1009-1010, 1991.
44. Kulig K, et al: Chest Pain and Breast Implants - Letter to the Editor. Southern Medical Journal 89: 98, 1996.
45. Brent J: Lipid emulsion as antidotal therapy – let the registration begin. (Letter). Crit Care Med, 37: 2326, 2009.
46. Kulig et al: The Methodology in the Paper by Chambers et al. Raises Serious Questions about Their Methodology. (Letter) Brain Injury 23:3-4, 2009.
47. Brent J: Fomepizole for toxic alcohol poisoning. (Letter) New Eng J Med 361:1213-1214, 2009.
48. Devlin J et al: Chelation in prosthetic hip-associated cobalt toxicity.(Letter) Can J of Cardiol 29: 537, 2013.
49. Brent J: High-dose paraquat exposure and Parkinson’s disease. (Letter) Neurotoxicol, 37: 247, 2013.
50. Brent J: Dermal decontamination for corrosive exposures. (Response Letter) Clin Toxicol, 52: 153, 2014.
51. Soltaninejad K et al: Aluminum phosphide intoxication mimicking ischemic heart disease led to unjustified treatment with streptokinase. (Letter) Clin Tox 47: 908-909, 2009
52. Cohen et al. The Authors Reply – Predictors of severe outcome following opioid intoxication in children. Clin Toxicol. 60:1084-1085, 2022.

### **BOOKS AND MONOGRAPHS**

53. Brent J (Guest Editor): Jet Fuel Toxicology. Agency for Toxic Substances and Disease Registry Case Studies in Environmental Medicine. 32, 1993.

54. Cisek, JE, et al: Multi-centered Studies in Medical Toxicology - Directory. Amer. College Emergency Physicians, 1993.
55. Brent J: Section Editor - Environmental Medicine. Emergency Toxicology, 2nd Edition. P. Viccellio Senior Editor. Little Brown, 1998.
56. Brent J et al: (Senior Editor) Critical Care Toxicology: Diagnosis and Management of the Critically Poisoned patient. Elsevier Mosby, 2005.(On line version published 2009)
57. Brent J et al: (Senior Editor) Critical Care Toxicology: Diagnosis and Management of the Critically Poisoned patient. Second edition. Springer, 2017.
58. Brent J. (Section Editor on Antidotes). The History of Clinical Toxicology. Woolf A, Editor. Elsevier, 2021.

### **BOOK CHAPTERS**

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## **PUBLISHED ABSTRACTS**

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