CURRICULUM VITAE

March 1, 2023

PERSONAL DATA

Name:	E. Martin Caravati, MD, MPH, FAACT
Citizenship:	USA
Business address:	Emergency Medicine 30 North 1900 East, Rm 1C026 Salt Lake City, UT 84132
Mobile telephone:	801-209-1084
Email address: martin.caravati@hsc.utah.edu	

EDUCATION

Bachelor of Arts, Chemistry, August 1973-May 1977 University of Virginia, Charlottesville, VA

Doctor of Medicine, July 1977-June 1981 Medical College of Virginia, Virginia Commonwealth University Richmond, VA

Emergency Medicine Internship and Residency, July 1981- June 1984 University of North Carolina, Carolinas Medical Center Charlotte, NC

Medical Toxicology Preceptorship (ABMT approved), July 1987-June 1990 University of Utah Medical Center, Douglas Rollins, MD, PhD, Toxicology Faculty Preceptor

Master of Public Health, Sept 1992-May 1994 Department of Family and Preventive Medicine University of Utah School of Medicine, Salt Lake City, Utah

Medical Review Officer Course Medical Review Officer Certification Council, San Antonio, TX, Sept. 26-27, 2009

CERTIFICATIONS

Medical Toxicology Subspecialty Re-certification: December 23, 2008 Medical Toxicology Subspecialty Certification, American Board of Medical Specialties, 2/5/99 Diplomat, American Board of Emergency Medicine (ABEM), 1985. Emergency Medicine Re-certifications: 12-27-1995, 12-23-2005. Instructor, Advanced HAZMAT Life Support (AHLS), 2003.

PROFESSIONAL EXPERIENCE

Current Appointment:

Professor Emeritus, University of Utah School of Medicine, Department of Emergency Medicine (7/2018present)

Previous Appointments/Positions (2000-2018):

Director and attending physician, Medical Toxicology Consult Service, University of Utah Hospital and Primary Children's Medical Center (Jan 1999-June 30, 2018): Inpatient and outpatient toxicology consultation and teaching concerning poisoned patients.

Professor (Clinical), Department of Surgery, Division of Emergency Medicine. Supervising faculty for toxicology education for emergency medicine residents and pediatric fellows. Research interest is medical toxicology with emphasis on acute poisonings, poisoning epidemiology, and public health. (1998-2018)

Adjunct Professor, Department of Pediatrics, University of Utah School of Medicine

Adjunct Professor, Department of Family and Preventive Medicine (Occupational and Environmental Health), University of Utah

Adjunct Professor, Department of Pharmacotherapy, College of Pharmacy, University of Utah (1992 – 2018): teaching clinical toxicology to PharmD candidates at UPCC.

Consultant, Utah Poison Control Center (July 2012-2018) Clinical toxicology consultation, teaching and on-call service for the Utah Poison Control Center.

Medical Director, Utah Poison Control Center (UPCC) (Jan 2000- June 2012): Medical supervision, quality assurance and teaching of poison center staff, PharmD and medical students, medical residents, emergency medicine residents and fellows at the UPCC, which received 55,000 poison consultations per year.

Attending physician, Emergency Department, University of Utah Hospital (1985-2004).

EDITORIAL EXPERIENCE

Editor-in-Chief, Clinical Toxicology (2012-2016)

• Official journal of American Academy of Clinical Toxicology, European Association of Poison Centres and Clinical Toxicologists and the American Association of Poison Control Centers.

Associate Editor, Clinical Toxicology (March 2009- December 2011)

Associate Editor (Toxicology), Annals of Emergency Medicine (1999-Dec 2010)

Editorial Board, Clinical Toxicology (2007-2009)

Editorial Board, Poisindex[®] Information System, Micromedex, Inc., Denver, CO (1987-2004): Editorial reviews and revisions for various toxicology management topics.

ADMINISTRATIVE EXPERIENCE Current/Active:

Activated Charcoal Guideline Project, American Academy of Clinical Toxicology, European Association of Poison Centres and Clinical Toxicologists (2016-present)

Member, Utah Lead Coalition: consultant on lead poisoning (2018-present)

Medical Panel Toxicology Expert, Utah Labor Commission (2018-present)

Peer-review Journal Referee/Reviewer/Consultant: -Annals of Emergency Medicine (1993-present). "Top Peer Reviewer" 2022. -Clinical Toxicology (1990-present).

Previous Experience (2000-present):

Scientific Review Committee, American Academy of Clinical Toxicology (2014-2020).

Scientific Committee, European Association of Poison Centres and Clinical Toxicologists (2013-2020).

Director, Toxicology Curriculum and Module, Division of Emergency Medicine (2005-2018).

Pharmacy and Therapeutics Committee, University of Utah Hospital (1986-2018). Evaluates and monitors all drugs on the hospital formulary.

Chair, Adverse Drug Reaction Subcommittee, Pharmacy and Therapeutics Committee, University of Utah (2002-2018). Evaluates and monitors adverse drug reactions for the hospital.

Abstract Review Committee, American Academy of Clinical Toxicology (1989, 1995, 2006- 2018).

Occupational Medicine Residency Advisory Committee: Evaluate residency curriculum and resident performance for occupational medicine, Rocky Mountain Center for Occupational and Environmental Health (2001-2018).

Expert panel member, Critical Pharmaceutical Product Availability Project, Healthcare and Public Health Sector, Department of Homeland Security (2018).

Expert Judge Panel, Best Scientific Presentation, European Association of Poison Centres and Clinical Toxicologists (EAPCCT) Scientific Meeting, Madrid, Spain, May 24-28, 2016.

Member, Expert Guideline Panel, Wilderness Medicine Society, evidenced-based guideline on pit viper envenomation in the wilderness. (2013-2015)

Chair, Task Force on AACT/EAPCCT Decontamination Guidance Papers, American Academy of Clinical Toxicology (2010-2015).

Council of Medical Directors, AAPCC (1998-2012): Biannual national meeting of Poison Center Medical Directors.

Expert Judge Panel, Young Investigators Research Award, European Association of Poison Centres and Clinical Toxicologists (EAPCCT) Scientific Meeting, London, UK. June 1, 2012

Curriculum Committee, HazMedic Program, Unified Fire Authority, Salt Lake City (2009-2010).

Prescription Pain Medication Steering Committee, Utah Department of Health (2007-2010) Evaluate an action plan for the increased deaths in Utah associated with methadone and other opiate prescription drugs and guides the Advisory Committee on policy and procedures for this epidemic.

Expert Judge Panel, Best Scientific Presentation, European Association of Poison Centres and Clinical Toxicologists (EAPCCT) Scientific Meeting, Bordeaux, France, May 12-14, 2010.

Secretary-Treasurer/Treasurer, Board of Trustees, American Academy of Clinical Toxicology (AACT) (2006-2010).

National Poison Center Guidelines Consensus Panel. Maternal Child Health Bureau, Health Resources and

Services Administration (HRSA), U.S. Department of Health & Human Services. (6/2003-2007)

Prescription Medication Death Task Force, Utah Department of Health (2005-7): Evaluate the causes and action plan for the increased deaths in Utah associated with methadone and other opiate prescription drugs.

Expert Panel, Unconventional Weapons of Mass Destruction-Binary Poisons Study, Department of Defense, December 17-18, 2002.

Board of Directors, American Association of Poison Control Centers (AAPCC) (1999-2002).

• Board liaison to the AAPCC Council of Medical Directors.

Hazmat Working Group, University of Utah Hospital (1998-2001). Develop and implement emergency response procedures for patients exposed to hazardous materials presenting to University Hospital.

Citizens Advisory Commission for Chemical Demilitarization, Governor's Office of Planning and Budget, State of Utah (1995-1999). Appointed by Governor Leavitt to provide advice on medical, toxic, and disaster issues regarding the destruction of chemical weapons at Tooele Army Depot.

PROFESSIONAL SOCIETY MEMBERSHIPS

Fellow, American College of Medical Toxicology (FACMT) Fellow, American Academy of Clinical Toxicology (FAACT)

HONORS

- Outstanding Faculty Contribution Award, Division of Emergency Medicine, 2018
- Distinguished Service Award, American Academy of Clinical Toxicology, 2016
- Delta Omega, Public Health Honor Society (2002) Who's Who in Medicine and Healthcare
- "Outstanding Consultant Award", Annals of Emergency Medicine: 1995, 1996, 1997, 1998, 2022.
- "Teacher of the Year" Award, 1996-1997, Division of Emergency medicine.

TEACHING RESPONSIBILITIES (1985-2018)

Resident/Fellow teaching: Director of Toxicology Training Programs: Emergency Medicine Residency Program and Pediatric Emergency Medicine Fellowship. Inpatient housestaff teaching on toxicology consult service patients. Monthly lectures on toxicology to emergency medicine residents. Guest lectures at various residency program conferences. (1985-2018).

Utah Poison Control Center (2012-2018): review of hospitalized toxicology cases with students, residents, fellows and UPCC staff.

Utah Poison Control Center (2000-2012): Daily morning rounds, Poison Management Weekly Case Conference, student in-services, toxicology journal club, bedside hospital rounds: review of hospitalized toxicology cases with students, residents, fellows and UPCC staff.

Pharmacy Practice/Pharmacotherapy 5312/7312/7315: Clinical Toxicology (1999-2010): Toxicology lectures on various poisoning topics to senior PharmD students, College of Pharmacy, 50 students/semester.

FPMD 6703: Occupational Diseases Seminar: Occupational Toxicology monthly seminar between the Utah Poison Center, Occupational Medicine and Masters of Public Health Program, University of Utah, Department of Family and Preventive Medicine. 10-15 students/residents per session. (1999-2000). Co-instructor.

BIBLIOGRAPHY

Peer Reviewed Journal Articles

Cohen N, et al. Severe outcomes following pediatric cannabis intoxication: A prospective cohort study of an international toxicology surveillance registry. (Submitted for publ JOct 2022, J Pediatrics)

Gosselin S, et al. Recommendations on the use of activated charcoal for gastrointestinal decontamination following acute oral overdose. (Submitted for publ Jan 2023, Clin Toxicol)

Cohen N, Mathew M, Davis A, Brent J, et al. Predictors of Severe Outcome Following Opioid Intoxication in Children. Clin Toxicol 2022;60(6):702-707.

Hoegberg LC, Shepherd G, Wood DM, Johnson J, Hoffman RS, **Caravati EM**, et al. Systematic review on the use of activated charcoal for gastrointestinal decontamination following acute oral overdose. Clin Toxicol 2021; 59(12):1196–1227.

Greene S, Ruha AM, Campleman S, Brent J, Wax P, and **ToxIC Snakebite Study Group**. Epidemiology, clinical features, and management of Texas Coral Snake (Micrurus tener) envenomations reported to the North American Snakebite Registry. J Med Toxicol 2021; 17(1):51-56.

Levine M Ruha AM, Wolk B, **Caravati M**, et al. When it comes to snakebites, kids are little adults: a comparison of adults and children with rattlesnake bites. J Med Toxicol 2020;16(4):444-451.

Drapkin Z, Plumb J, Szadkowski MA, **Caravati EM**: Acute cerebellitis in a 5-year-old child. Pediatric Emerg Care 2018;34(9):e175-e177.

Bowman N, **Caravati EM**, Horowitz BZ, Crouch BI. Acute Pneumonitis Associated with Nickel Carbonyl Exposure in the Workplace. Clin Toxicol 2018 Mar;56(3):223-225.

Dart RC, Goldfrank LR, Erstad BL, Huang DT, Todd KH, Weitz J, Bebarta VS, **Caravati EM**, Henretig FM, Delbridge TR, Banner W, Schneider SM, Anderson VE. Expert Consensus Guidelines for Stocking of Antidotes in Hospitals That Provide Emergency Care. Ann Emerg Med. 2017 Jun 29. [Epub ahead of print]; Ann Emerg Med. 2018 Mar;71(3):314-325.[print]

Szadkowski M, Drapkin Z, Hewes H, **Caravati EM**, Plumb J. A Teenager With Seizures and Cardiac Arrest After Drug Overdose: Are We Numb to the Danger? Pediatr Emerg Care. 2017 Sep;33(9):657-659.

Farrugia LA, Rhyee SH, Campleman SL, Ruha AM, Weigand T, Wax PM, Brent J; **Toxicology Investigators Consortium**. The Toxicology Investigators Consortium Case Registry-the 2015 Experience. J Med Toxicol. 2016 Sep;12(3):224-47. (Consortium Collaborator)

Galovic G, Fair J, **Caravati EM**. The echoes of intoxication. Clin Toxicol (Phila). 2016;54(6):469-470. Epub 2016 Mar 23. (Commentary)

Kanaan NC, Ray J, Stewart M, Russell KW, Fuller M, Bush SP, **Caravati EM**, Cardwell MD, Norris RL, Weinstein SA. Wilderness Medical Society Practice Guidelines for the Treatment of Pitviper Envenomations in the United States and Canada. Wilderness Environ Med. 2015 Dec;26(4):472-87.

Dayton J, **Caravati EM**, Smith S. A case report of non-beverage alcohol abuse by cooking extract. J Child Adoles Substance Abuse 2015; ePub online

Thanacoody R, **Caravati EM**, Troutman B, Höjer J, Benson B, Hoppu K, Erdman A, Bedry R, Mégarbane B. Position paper update: whole bowel irrigation for gastrointestinal decontamination of overdose patients. Clin Toxicol (Phila). 2015;53(1):5-12.

Rhyee SH, Farrugia L, Wiegand T, Smith EA, Wax PM, Brent J; **Toxicology Investigators Consortium**. The toxicology investigators consortium case registry-the 2013 experience. J Med Toxicol. 2014 Dec;10(4):342-59. (Consortium Collaborator)

Williams BT, Schlein SM, **Caravati EM**, Ledyard H, Fix ML. Emergency Department Identification and Critical Care Management of a Utah Prison Botulism Outbreak. Ann Emerg Med. 2014;64(1):26-31.

Benson BE, Hoppu K, Troutman WG, Bedry R, Erdman A, Höjer J, Mégarbane B, Thanacoody R, **Caravati EM**. Position paper update: gastric lavage for gastrointestinal decontamination. Clin Toxicol (Phila). 2013;51(3):140-6.

Höjer J, Troutman WG, Hoppu K, Erdman A, Benson BE, Mégarbane B, Thanacoody R, Bedry R, **Caravati EM**. Position paper update: ipecac syrup for gastrointestinal decontamination. Clin Toxicol (Phila). 2013;51(3):134-9

Caravati EM, Megarbane B. Update of position papers on gastrointestinal decontamination for acute overdose. Clin Toxicol 2013;51(3):127. (Editorial)

Caravati EM, Latimer S, Reblin, Bennett HK, Cummins MR, Crouch MB, Ellington L. High call volume at poison control centers: identification and implications for communication. Clin Toxicol 2012;50(8):781-7.

Caravati EM. The future of Clinical Toxicology. Clin Toxicol 2012;50(3):161-2.

Ellington L, Poynton MR, Reblin M, Latimer S, Bennett HKW, Crouch BI, **Caravati EM**. Communication patterns for the most serious poison center calls. Clin Toxicol 2011;49:316-23.

Wolfe MD, Myers O, **Caravati EM**, Rayburn WF, Seifert SA. Black widow spider envenomation in pregnancy. J Maternal-Fetal and Neonatal Med 2011;24(1):122-6.

Rogers SC, Pruitt CW, Crouch DJ, **Caravati EM**. Rapid urine drug screens: diphenhydramine and methadone cross-reactivity. Pediatr Emerg Care 2010:26(9):665-6

Wilson C, Canning P, Caravati EM. The abuse potential of propofol. Clin Toxicol 2010;48(3):165-70.

Caravati EM, Anderson KT. Breath Alcohol Analyzer Mistakes Methanol Poisoning for Alcohol Intoxication. Ann Emerg Med 2010;55:198-200.

Poynton MR, Ellington L, **Caravati EM**, Crouch BI, Bennett H. Building knowledge for poison control: the novel pairing of communication analysis with data mining methods. Stud Health Technol Inform. 2009;146:207-13.

Poynton MR Bennett HKW, Ellington L, Crouch BI, **Caravati EM**, Jasti S. Specialist discrimination of toxic exposure severity at a poison control center. Clin Toxicol 2009;47:678- 682.

Dart RC, Borron SW, **Caravati EM**, Cobaugh DJ, Curry SC, Falk JL, Goldfrank L, Gorman SE, Groft S, Heard K, Miller K, Olson KR, O'Malley G, Seger D, Seifert SA, Sivilotti ML, Schaeffer T, Tomassoni AJ, Wise R, Bogdan GM, Alhelail M, Buchanan J, Hoppe J, Lavonas E, Mlynarchek S, Phua DH, Rhyee S, Varney S, Zosel A; Antidote Summit Authorship Group. Expert consensus guidelines for stocking of antidotes in hospitals that provide emergency care. Ann Emerg Med 2009;54(3):386-394.

Milne M, Crouch BI, **Caravati EM**. Buprenorphine for opioid dependence. J Pain Palliative Care Pharmacotherapy 2009;23(2):153-5.

poison control centers. Am J Health-Syst Pharm 2009:66:1292-6.

Yarris JP, **Caravati EM**, Horowitz ZB, Stromness JR, Crouch BI, McKeown NJ. Acute arsenic trioxide ant bait ingestion by toddlers. Clin Toxicol (Phila). 2008;46(9):785-789.

Manoguerra AS, Erdman AR, Woolf AD, Chyka PA, **Caravati EM**, Scharman EJ, Booze LL, Christianson G, Nelson LS, Cobaugh DJ, Troutman WG. Valproic acid poisoning: An evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila) 2008;46(7):661-676.

Ellington L, Kennedy SL, Matwin, S, Smith JA, Poynton M, Crouch BI, **Caravati EM**. An Examination of Adherence Strategies and Challenges in Poison Control Communication. J Emerg Nursing 2009;35:186-190.

Ellington L, Matwin S, Jasti S, Williamson J, Crouch BI, **Caravati EM**, Dudley WN. Poison Control Center Communication and Impact on Caller Adherence. Clin Toxicol (Phila) 2008;46:105-109.

Caravati EM, Erdman AR, Christianson G, Nelson LS, Woolf AD, Booze LL, Cobaugh DJ, Chyka PA, Scharman EJ, Manoguerra AS, Troutman WG. Elemental mercury exposure: An evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila) 2008;46(1):1-21.

Taylor J, Fosnocht D, **Caravati EM**. Emergency department patient knowledge concerning acetaminophen in OTC and prescription analgesics. Emerg Med J 2008; 25:213-216.

Scharman EJ, Erdman AR, Cobaugh DJ, Woolf AD, **Caravati EM**, Chyka PA, Booze LL, Manoguerra AS, Nelson LS, Christianson G, Troutman WG. Methylphenidate poisoning: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2007;45:737-52.

Cobaugh DJ, Erdman AR, Booze LL, Scharman EJ, Christianson G, Manoguerra AS, **Caravati EM**, Chyka PA, Woolf AD, Nelson LS, Troutman WG. Atypical antipsychotic medication poisoning: An evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2007;45(8):918-42.

Chyka PA, Erdman AR, Manoguerra AS, Christianson G, Booze LL, Nelson LS, Woolf AD, Cobaugh DJ, **Caravati EM**, Scharman EJ, Troutman WG. Dextromethorphan poisoning: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila) 2007;45(6):662-77.

Nelson LS, Erdman AR, Booze LL, Cobaugh DJ, Chyka PA, Woolf AD, Scharman EJ, Wax PM, Manoguerra AS, Christianson G, **Caravati EM**, Troutman WG. Selective serotonin reuptake inhibitor poisoning: An evidencebased consensus guideline for out-of-hospital management. Clin Toxicol (Phila) 2007;45(4):315-32.

Caravati EM, Erdman AR, Scharman EJ, Woolf AD, Chyka PA, Cobaugh DJ, Wax PM, Manoguerra AS, Christianson G, Nelson LS, Olson KR, Booze LL, Troutman WG. Long-acting anticoagulant rodenticide poisoning: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2007;45:1-22.

Chyka PA, Erdman AR, Christianson G, Wax PM, Booze LL, Manoguerra AS, **Caravati EM**, Nelson LS, Olson KR, Cobaugh DJ, Scharman EJ, Woolf AD, Troutman WG. Salicylate poisoning: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2007;45:95-131.

Woolf AD, Erdman AR, Nelson LS, **Caravati EM**, Cobaugh DJ, Booze LL, Wax PM, Manoguerra AS, Scharman EJ, Olson KR, Chyka PA, Christianson G, Troutman WG. Tricyclic antidepressant poisoning: an evidencebased consensus guideline for out-of-hospital management. Clin Toxicol (Phila) 2007;45:203-33.

Crouch BI, **Caravati EM**, Dandoy C. Effect of dilution with beverages on the smell and taste of oral acetylcysteine. Am J Health-Syst Pharm 2007; 64:1965-8.

Majersik J, **Caravati EM**, Steffens J. Severe Neurotoxicity Associated with Exposure to the Solvent 1-Bromopropane (n-Propyl Bromide). Clin Toxicol (Phil) 2007;45(3):270-276.

Poynton M, Jasti S, Ellington L, Dudley W, Crouch B, **Caravati M**, Williamson J. Matching waveform audio files with toxicall data: Record linkage in a poison control center. Stud Health Technol Inform2006;122:849. Manoguerra AS, Erdman AR, Wax PM, Nelson LS, **Caravati EM**, Cobaugh DJ, Chyka PA, Olson KR, Booze LL, Woolf AD, Keyes DC, Christianson G, Scharman EJ, Troutman WG; American Association of Poison Control Centers. Camphor Poisoning: an evidence-based practice guideline for out-of-hospital management. Clin Toxicol (Phila). 2006;44(4):357-70.

Scharman EJ, Erdman AR, Wax PM, Chyka PA, **Caravati EM**, Nelson LS, Manoguerra AS, Christianson G, Olson KR, Woolf AD, Keyes DC, Booze LL, Troutman WG. Diphenhydramine and dimenhydrinate poisoning: an evidence-based consensus guideline for out of-hospital management. Clin Toxicol (Phila) 2006;44(3):205-23.

Dart RC, Erdman AR, Olson KR, Christianson G, Manoguerra AS, Chyka PA, **Caravati EM**, Wax PM, et al; American Association of Poison Control Centers. Acetaminophen poisoning: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2006;44(1):1-18.

Olson KR, Erdman AR, Woolf AD, Scharman EJ, Christianson C, **Caravati EM**, Wax PM, Booze LL, Manoguerra AS, Keyes DC, Chyka PA, Troutman WG. Calcium channel blocker ingestion: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2005;43:797-821.

Caravati EM, Erdman AR, Christianson G, Manoguerra AS, Booze LL, Woolf AD, Olson KR, Chyka PA, Scharman EJ, Wax PM, Keyes DC, Troutman WG. Ethylene glycol exposure: an evidence-based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2005;43:327-45.

Manoguerra AS, Erdman AR, Booze LL, Christianson G, Wax PM, Scharman EJ, Woolf AD, Chyka PA, Keyes DC, Olson KR, **Caravati EM**, Troutman WG. Iron ingestion: an evidence- based consensus guideline for outof-hospital management. Clin Toxicol (Phila). 2005;43:553- 570.

Caravati EM, Juenke JM, Crouch BI, Anderson KT. Quetiapine cross-reactivity with plasma tricyclic antidepressant immunoassays. Ann Pharmacother 2005;39:1446-9.

Wax PM, Erdman AR, Chyka PA, Keyes DC, **Caravati EM**, Booze L, Christianson G, Woolf A, Olson KR, Manoguerra AS, Scharman EJ, Troutman WG. β-Blocker ingestion: an evidence- based consensus guideline for out-of-hospital management. Clin Toxicol (Phila). 2005;43:131- 146.

Manoguerra AS, Cobaugh DJ, Members of the Guidelines for the Management of Poisons Consensus Panel. Guideline on the use of ipecac syrup in the out-of-hospital management of ingested poisons. J Toxicol Clin Toxicol 2005;1:1-10.

Caravati EM. Reconsidering the safety of over-the-counter decongestants. Ann Emerg Med. 2005;45:217-8. (Editorial)

Centers for Disease Control and Prevention (CDC) [**Caravati EM**, Grey T, Nangle B, Rolfs RT, Peterson-Porucznik CA]. Increase in Poisoning Deaths Caused by Non-Illicit Drugs --- Utah, 1991--2003. MMWR Morb Mortal Wkly Rep. 2005 Jan 21;54(2):33-36.

Crouch BI, **Caravati EM**, Mitchell A, Martin AC. Poisoning in older adults: A 5-year experience of US poison control centers. Ann Pharmacother 2004;38:2005-2011.

Crouch BI, **Caravati EM**, Booth J. Trends in Child and Teen Nonprescription Drug Abuse Reported a Regional Poison Control Center. Am J Health Syst Pharm 2004;61:1252-1257.

Caravati EM, Heilesen H, Jones M. Treatment of Severe Pediatric Ethylene Glycol Intoxication Without Hemodialysis. J Toxicol Clin Toxicol 2004;42:255-259.

Caravati EM. Copperhead Bites and Crotalidae Polyvalent Immune Fab (Ovine): Routine Use Requires Evidence of Improved Outcomes. Ann Emerg Med 2004;43:207-208. (editorial)

Cannon G, **Caravati EM**, Filloux FM. Hydrogen peroxide neurotoxicity in childhood: case report with unique magnetic resonance imaging features. J Child Neurol 2003 Nov; 18(11): 805- 808.

Tyler L, Fox E, **Caravati EM**. The Challenge of Drug Shortages for Emergency Medicine. Ann Emerg Med 2002; 40-598-602.

Caravati EM, Knight HH, Linscott MS, Stringham JC: Esophageal laceration and charcoal mediastinum complicating gastric lavage. J Emerg Med 2001; 273-276.

Crouch BI, **Caravati EM**, Summers EH: Jimsonweed Toxicity and Treatment. J Pharmaceutical Care in Pain and Symptom Control 2001;9(2):25-30. (Review)

Caravati EM: Unintentional pediatric acetaminophen ingestion in children and the risk of hepatotoxicity. J Toxicol Clin Toxicol 2000;38(3):291-296.

Litovitz TL, Klein-Schwartz W, **Caravati EM**, Youniss J, Crouch B, Lee S: 1998 Annual Report of the American Association of Poison Control Centers Toxic Exposure Surveillance System. Am J Emerg Med 1999;17:435-487.

Caravati EM: The electrocardiogram as a diagnostic discriminator in tricyclic antidepressant toxicity. J Toxicol: Clin Toxicol 1999;37:113-115 (editorial).

Wolfe TR, **Caravati EM**: Massive dextromethorphan ingestion and abuse. Am J Emerg Med 1995;13:174-176.

Apfelbaum JD, **Caravati EM**, Kerns WP, Bossart PJ, Larsen G: Cardiovascular effects of carbamazepine toxicity. Ann Emerg Med 1995; 25:631-635.

Dickson K, **Caravati EM**: Hydrogen peroxide exposure – 325 cases reported to a regional poison control center. J Toxicol: Clin Toxicol 1994;32:705-714.

Ryan KC, **Caravati EM**: Life-threatening anaphylaxis following envenomation by two different species of crotalidae. J Wilderness Med 1994; 5:263-268.

Hooker KR, Caravati EM: Gila monster envenomation. Ann Emerg Med 1994; 24:731-735.

Bernstein E, Goldfrank L, Kellerman AL, Hargarten SW, Jonathon J, Fish SS, Herbert BH, Flores C, **Caravati EM**, Krishel S, Stevens CD, Kirsch TD, Lowe RA, Lowenstein SR, Baraff LJ, Mueller-Orsay EJ, Ling L, Sklar DP: A public health approach to emergency medicine: preparing for the twenty-first century. Acad Emerg Med 1994; 1:277-286.

Herr RD, **Caravati EM**, Tyler LS, lorg E, Linscott MS: Prospective evaluation of adverse drug interactions in the emergency department. Ann Emerg Med 1992; 21:237-242.

Runge JW, Martinez JC, **Caravati EM**, Williamson SG, Hartsell SC: Histamine antagonists in the treatment of acute allergic reactions. Ann Emerg Med 1992;21:1331-1336.

Herr RD, **Caravati EM**: Acute transient ischemic colitis after oral methamphetamine ingestion. Am J Emerg Med 1991;8:406-409.

Caravati EM, Bossart PJ: Demographic and electrocardiographic factors associated with severe tricyclic antidepressant toxicity. J Toxicol: Clin Toxicol 1991; 29:31-43.

Caravati EM, McElwee NE: Use of clinical toxicology resources by emergency physicians and its impact on poison control centers. Ann Emerg Med 1991; 20:147-150.

Wolfe TR, **Caravati EM**, Rollins DE: The terminal 40 ms frontal plane QRS axis as a marker for tricyclic antidepressant overdose. Ann Emerg Med 1989; 18:348-351.

Caravati EM, Bennett DL, McElwee NE: Coin ingestion: A prospective study on the utility of routine roentgenograms. Am J Dis Child 1989; 143: 549-551.

Caravati EM, Litovitz TB: Pediatric cyanide intoxication and death from an acetonitrile- containing cosmetic. JAMA 1988; 260:3470-3473.

Caravati EM, Adams CJ, Joyce SM, Schafer NC: Fetal toxicity associated with maternal carbon monoxide poisoning. Ann Emerg Med 1988; 27:714-717.

Caravati EM, Bennett DL: Clonidine transdermal patch poisoning. Ann Emerg Med 1988; 17:175-176.

Caravati EM: Acute hydrofluoric acid exposure. Am J Emerg Med 1988; 6:143-150. (Review)

Caravati EM: Metabolic abnormalities associated with phosphoric acid ingestion. Ann Emerg Med 1987; 16:904-906.

Sawyer WT, **Caravati EM**, Ellison MJ, Krueger KA: Hypokalemia, hyperglycemia, and acidosis after intentional theophylline overdose. Am J Emerg Med 1985; 3:408-411.

Textbook Authorship

Dart RC, **Caravati EM**, McGuigan MA, et al: <u>Medical Toxicology</u>, 3rd edition, Lippincott, Williams and Wilkins, 2004.

Book Chapters

Caravati EM, Crouch BI. Chapter 294: Muscle Relaxants and Other Sedative-Hypnotic Agents, in Wolfson AB (ed): Harwood-Nuss' Clinical Practice of Emergency Medicine, 5th Edition, Lippincott Williams & Wilkins, 2010, p 1412-1415.

Caravati EM. Hydrogen Sulfide, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1169-1173.

Caravati EM, McCowan CL, Marshall SW. Plants, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1671-1713.

Caravati EM. Anorectic Agents and Respiratory and Cerebral Stimulants, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p871-880.

Caravati EM. Alkali, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1304-1309.

Caravati EM. Acids, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1294-1303.

Caravati EM. Boron Compounds, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1320-1324.

McCowan CL, **Caravati EM**. Natural Toxins: Lizards, Newts and Toads, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1538-1543.

Caravati EM. Hallucinogenic Drugs, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1103-1111.

Caravati EM. Marijuana and other Cannabinoids, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1112-1116.

Caravati EM. Smooth Muscle Relaxants, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1009-1016.

McCowan C, **Caravati EM**. Local Anesthetics, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, 979-984.

Caravati EM. Flumazenil, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2003, p199-204.

Caravati EM. Protamine, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, 243-244.

Caravati EM. Prussian Blue, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p247-249.

Caravati EM. Arsenic and Arsine Gas, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1393-1401.

Caravati EM. Bismuth, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p1407-1411.

Caravati EM. Type I Antidysrhythmic Agents, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p655-678.

Stephen R, **Caravati EM**. Ascending Paralysis, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p 40-43.

Stephen R, **Caravati EM**. Hallucinations, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p 84-87.

Caravati EM, Spiller HA. Metformin (Biguanides), in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p965-968.

Caravati EM. Dantrolene, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p176-178.

Caravati EM. D-Penicillamine, in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p189-190.

Caravati EM. Phytonadione (Vitamin K), in Dart R (ed): Medical Toxicology, 3rd edition, Lippincott, Williams and Wilkins, 2004, p237-240.

Caravati EM, Crouch BI. N,N-Diethyltoluamide (DEET), in Ford M (ed): Clinical Toxicology, W.B. Saunders Co., Philadelphia, 2000.

Crouch BI, **Caravati EM**. Insecticides: Organochlorines and pyrethrins, in Ford M (ed): Clinical Toxicology, W.B. Saunders Co., Philadelphia, 2000.

Caravati EM. Air-borne Environmental Exposures, in Berstein E (ed): Emergency Medicine and the Health of the Public: Case Studies, Jones and Bartlett, Boston, 1995.

Caravati EM. Clonidine, in Krome R, Tintinalli J (eds): Emergency Medicine: A Comprehensive Study Guide, ed 4, McGraw-Hill, New York, 1994.

Caravati EM. Clonidine, in Krome R, Tintinalli J (eds): Emergency Medicine: A Comprehensive Study Guide, ed 3, McGraw-Hill, New York, 1991.

Monographs/Non-peer review articles

Raps C, **Caravati EM**. Methemglobinemia: A Potentially Fatal, Treatable Cause of Cyanosis and Hypoxia. Utah ACEP Newsletter Spring Issue, 2018.

Badeau A, **Caravati EM**. To See or Not to See? The radiopacity of ingested medications. Utah ACEP Newsletter, Spring Issue 2018.

Kelly C, **Caravati EM**. Ibogaine: A Potentially Deadly Detoxification Method. Utah ACEP Newsletter, Fall Issue, 2017.

Yannopoulo P, **Caravati EM**. Treatment of Calcium Channel Blocker Overdose. Utah ACEP Newsletter, Fall Issue, 2017.

Jones J, Caravati EM. Management of Drug-Induced Seizure. Utah ACEP Newsletter, Spring Issue 2017.

Wells KM, **Caravati EM**. Fentanyl and Other Synthetic Opioids Causing Furrowed Brows: A New Threat to Public Health. Utah ACEP Newsletter, Fall Issue 2016.

Glerum S, **Caravati EM**. Organophosphate Nerve Agent Poisoning. Utah ACEP Newsletter, Summer Issue 2016.

Lum MM, **Caravati EM**. The Pitfalls of Patients Presenting with Alcohol Intoxication. Utah ACEP Newsletter, Spring Issue 2016.

Ojcius J, **Caravati EM**. Infant respiratory distress: Could it be a poison? Utah ACEP Newsletter, Fall Issue 2015

Hood C, Caravati M. Heavy Metal Poisoning. Utah ACEP Newsletter, Summer Issue 2015

Stoecklein H, **Caravati M**. Remembering and recognizing: Serotonin Syndrome. Utah ACEP Newsletter, Summer Issue 2015

Drapkin Z, Caravati EM. Is It Time for Activated Charcoal? Utah ACEP Newsletter, Spring Issue 2015

Juenke J, **Caravati EM**, Crouch BI, McMillin GA. Brodifacoum poisoning: Case report. Therapeutics and Toxins News 2003;18(3):8-11.

Banner W, Bond GR, **Caravati EM**, Curry SC, Dart RC, Rumack BH, Smilkstein M, Temple AR. Guidelines for the Management of Acute Acetaminophen Overdose. McNeil Consumer Healthcare, 1999.

PEER REVIEW ABSTRACT PUBLICATIONS AND SCIENTIFIC PRESENTATIONS AT NATIONAL MEETINGS

Cohen N, Mathew M, Davis A, Brent J, et al. Predictors of Severe Outcome Following Opioid Overdose in Children: A Case-control Study of a Prospective Toxicology Surveillance Registry. Presented at the North American Congress of Clinical Toxicology, Virtual Meeting, 2021

Ruha AM, Gerkin RD, Wolk B, **Caravati EM**, Brent J, Campleman S, Wax P. On behalf of the ToxIC Snakebite Study Group. Association between Platelet Count and Antivenom Dose Following Rattlesnake Envenomation. Presented at American College of Medical Toxicology 15th Annual Scientific Meeting, Washington, DC, April 6-8, 2018. J Med Toxicol 2018;14:46.

Bowman N, Lingenfelter E, **Caravati EM**, Crouch BI. Assessment of the barriers to naloxone kit distribution and the perceptions of layperson naloxone use in a single emergency department. Presented at the North American Congress of Clinical Toxicology, Boston, MS, US, September 14-16, 2016 (poster). Clin Toxicol 2016;54:750.

Ojcius J, **Caravati EM**. Treatment of salicylate-induced respiratory failure in a 12-month old infant using extracorporeal membrane oxygenation. Presented at the North American Congress of Clinical Toxicology, Boston, MS, US, September 14-16, 2016 (poster). Clin Toxicol 2016;54:761.

Hewes H, **Caravati EM**, Thomas R, Plumb J. That doesn't belong there! Unusual pediatric Epipen adverse effect from accidental deployment. Presented at the North American Congress of Clinical Toxicology, Boston, MS, US, September 14-16, 2016 (poster). Clin Toxicol 2016;54:767-8.

Plumb J, Thomas R, **Caravati EM**, Weaver N, Plumb JS. Severe burns associated with E-cigarette malfunction. Presented at the North American Congress of Clinical Toxicology, Boston, MS, US, September 14-16, 2016 (poster). Clin Toxicol 2016;54:786-7.

Dayton J, **Caravati M**, Smith S. The grocery baking aisle and non-beverage alcohol abuse. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:674.

Johnson AR, Chauv S, Bair JD, Barnes DR, **Caravati EM**, Crouch BI. Rapid resolution of severe lactic acidosis following hydroxocobalamin administration in an intentional potassium cyanide overdose. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:70.

Drapkin Z, **Caravati EM**, Plumb J, Szadkowski M. Intentional oral viscous lidocaine overdose resulting in seizure and death in an adolescent. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:719-720.

Szadkowski M, **Caravati EM**, Gamboa D, Dudley N. Treatment of flecainide toxicity in a 12- month-old child using intravenous lipid emulsion. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:724.

de Laveaga JM, **Caravati EM**. Successful treatment of severe pediatric alcohol poisoning with hemodialysis. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:755-756. Plumb J, Fenton SJ, Thomas R, Bolte RG, **Caravati EM**. Severe esophageal stricture in an infant after ingestion of a callus remover product. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:760-761.

Bowman NJ, **Caravati EM**, Stromness JR, Mcfarlane KT, Crouch BI, Horowitz BZ. Acute pneumonitis associated with nickel carbonyl exposure in the workplace. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:761-762.

Plumb J, Miller C, Thomas R, **Caravati EM**. Hypercalcemia in a cheld from unintentional vitamin D supplement overdose. Presented at the North American Congress of Clinical Toxicology, San Francisco, CA, US, October 10-12, 2015 (poster). Clin Toxicol 2015;53:762-763.

Craven P, Turner C, Galovic B, **Caravati EM**. Cardiac ischemia and rhabdomyolysis associated with 2,4 dinitrophenol misuse for weight loss and body building in a pediatric patient. Presented at International Congress of the European Association of Poisons Centres and Clinical Toxicologists, St. Julian, Malta, May 27, 2015 (poster). Clin Toxicol 2015;53:289.

Plumb J, **Caravati EM**, Thomas R. Coma Delivered in the Mail: Pediatric Pentobarbital Overdose. Presented at the North American Congress of Clinical Toxicology, New Orleans, LA, US, October 21, 2014 (poster). Clin Toxicol 2014;52:811-812.

Dorais JL, Dayton JR, **Caravati EM**. Non-ST segment elevation myocardial infarction after phenylnephrine misdosing. Presented at International Congress of the European Association of Poisons Centres and Clinical Toxicologists, Brussels, Belgium, May 28, 2014 (poster). Clin Toxicol 2014;52:324.

Caravati EM, Donnelly ML, Birdsall S. Maternal-Fetal Lead Poisoning from Pottery Pica Treated with DMSA and Exchange Transfusion. Presented at the North American Congress of Clinical Toxicology, Atlanta, GA, US, September 30, 2013 (poster). Clin Toxicol 2013;51(7):644.

Thomas R, **Caravati EM**, Plumb J. Two Cases of Pediatric latrogenic Sodium Intoxication. Presented at the North American Congress of Clinical Toxicology, Atlanta, GA, US, September 30, 2013 (poster). Clin Toxicol 2013;51(7):633-634.

Craven P, **Caravati EM**, Tietze C, Steenblik M. Adult lead poisoning from ingested bullets. Presented at International Congress of the European Association of Poisons Centres and Clinical Toxicologists, Copenhagen, Denmark, May 28, 2013 (poster). Clin Toxicol 2013;51:357.

Ray J, Williams B, Caravati M, Takotsubo cardiomyopathy associated with opiate and benzodiazepine overdose. Presented at the North American Congress of Clinical Toxicology, Las Vegas, NV, US, October 3-6, 2012 (poster). Clin Toxicol 2012;50(7):592.

Thomas RG, O'Gorman MA, Varier R, Keller AA, Hanson A, Caravati M, Plumb. Pediatric zinc chloride ingestion with metabolic acidosis and elevated zinc levels. Presented at the North American Congress of Clinical Toxicology, Las Vegas, NV, US, October 3-6, 2012 (poster). Clin Toxicol 2012;50(7): 609.

Williams BT, Schlein S, Caravati M, Hatten B. Botulism outbreak in a state prison from "pruno". Presented at the North American Congress of Clinical Toxicology, Las Vegas, NV, US, October 3-6, 2012 (platform). Clin Toxicol 2012;50(7):611-612.

Chang A, Law R, Martin C, Bronstein A, Grande K, Simone K, **Caravati M**, Schier J. Surveillance for radiation exposures using the National Poison Data System. Presented at the North American Congress of Clinical Toxicology, Las Vegas, NV, US, October 3-6, 2012 (poster) Clin Toxicol 2012;50(7):680.

Plumb J, McDonnell WM , Anderson KT, Crouch BI , Caravati EM. Adverse effects from pediatric exposures

to spice (cannabinoid agonists). Presented at the North American Congress of Clinical Toxicology, Las Vegas, NV, US, October 3-6, 2012 (poster) Clin Toxicol 2012;50(7):708.

Thomas KC, Crouch BI, **Caravati EM**. Elevated compartment pressures in two pediatric rattlesnake envenomations. Clin Toxicol 2011; 49:541. Presented at the North American Congress of Clinical Toxicology, Washington, DC, October 2011. (poster)

Stromness, Crouch BI, **Caravati EM**. Seizure 15 hours after tramadol extended release ingestion by an infant. Clin Toxicol 2011;49 :547. Presented at the North American Congress of Clinical Toxicology, Washington, DC, October 2011. (poster)

Cummins MR, Muthukutty A, Latimer S, Bennett HK, **Caravati EM**, et al. Narrative text improves performance of poison center predictive models. Clin Toxicol 2011;49 :601-602. Presented at the North American Congress of Clinical Toxicology, Washington, DC, October 2011. (poster)

Madsen JE, **Caravati EM**, Crouch BI. Delayed transaminase elevation after acetaminophen overdose: A case report. Clin Toxicol 2011; 49:616. Presented at the North American Congress of Clinical Toxicology, Washington, DC, October 2011 (poster)

Plumb J, **Caravati EM**, Anderson K, McDonnel X. Spicing Things Up: Pediatric Exposures to Synthetic Cannabinoids. Society for Academic Emerg Medicine Annual Meeting, Boston, MA, June 1-5, 2011. (Poster)

Muthukutty A, Poynton, MR, Ellington L, Crouch BI, **Caravati EM**. Pre-processing poison control substance data for knowledge discovery. Proceedings of AMIA 2010: Key to Quality Care and Scientific Progress. Washington, D.C. American Medical Informatics Association. November 16, 2010.

Anderson KA, **Caravati EM**, Dahl B. Adverse effects associated with smoking damiana incense product. Clin Toxicol 2010;48:618. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 9, 2010 (Poster)

Todd L, **Caravati EM**, Crouch BI, Roper W. Epidemiology of ethylene glycol poisoning and treatment trends reported to US poison centers 2000-2007. Clin Toxicol 2010;48:659. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 12, 2010 (Poster)

Smith C, Marshall SW, Crouch BI, **Caravati EM**. Serotonin syndrome precipitated by methylene blue. Clin Toxicol 2010;48:664. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 12, 2010 (Poster)

Ellington L, Poynton M, Bennett H, Latimer S, Reblin M, Crouch BI, **Caravati EM**. SPI Perceived Case Severity Impacts Poison Center Communication. Clin Toxicol 2010;48:642. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 11, 2010 (Poster)

Latimer, S., Ellington, L., Poynton, M., Reblin, M., Bennett, H., Crouch, BI, **Caravati EM**. Communication Patterns at a Poison Control Center during Surge vs. Non-Surge Periods. Clin Toxicol 2010;48:641. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 11, 2010 (Poster)

Moltz E, **Caravati EM**, Crouch BI. Death from elemental mercury aspiration following intentional ingestion. A case report. Clin Toxicol 2010;48:623. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 10, 2010 (Poster)

Oliver S, Crouch BI, **Caravati EM**, Barnitz C, Rice JN. Environmental mercury assessment in a hospitalized mercury poisoned patient. Clin Toxicol 2010;48:622. Presented at the North American Congress of Clinical Toxicology, Denver, CO, October 10, 2010 (Poster)

Caravati EM, Latimer S, Ellington L, Poynton M, Bennett HKW, Crouch BI. Identification and Characterization of Surges in Poison Center Call Volume. Presented at International Congress of the European Association of Poisons Centres and Clinical Toxicologists, Bordeaux, France, May 10, 2010. (Poster)

Ellington, L, Latimer, S, Maxwell, A, Sayin, E, Poynton, M, Bennett, H, Crouch, BI, Caravati, M. The Predictive Role of Communication in Adherence to Poison Control Center Referrals. International Conference on Communication in Healthcare, Miami, FL. October 4-7, 2009. (Poster)

Stromness JR, Crouch BI, Caravati EM. Prolonged conjunctivitis from coral injury. North American Congress of Clinical Toxicology, San Antonio, TX. September, 2009 (Poster)

Bennett HKW, Latimer S, Ellington L, Crouch BI, Poynton M, **Caravati EM**. Visualization of poison center call data. North American Congress of Clinical Toxicology, San Antonio, TX. September, 2009 (Poster)

Ellington L, Poynton M, Sayin E, Latimer S, Bennett H, Crouch B, **Caravati EM**. Communication patterns for the most serious poison center calls. North American Congress of Clinical Toxicology, San Antonio, TX. September 2009. (Platform)

Poynton MR, Ellington L, **Caravati EM**, Crouch BI, Bennett H. Building knowledge for poison control: The novel pairing of communication analysis with data mining methods. 10th International Congress on Nursing Informatics, Helsinki, Finland, June 2009. (Platform)

Guo JW, Poynton M, Matney S, Ellington L, Crouch BI, **Caravati EM**. Requirements analysis for HL7 message development in poison control center. 10th International Congress on Nursing Informatics, Helsinki, Finland, June 2009. (Poster)

Peters MS, Poynton MR, Ellington L, Crouch BI, **Caravati EM**. Use of standardized terminologies in the poison control setting: An analysis. 10th International Congress on Nursing Informatics, Helsinki, Finland, June 2009. (poster)

Latimer S, Ellington L, Maxwell A, Poynton MR, Bennett H, Crouch BI, **Caravati EM**. Identifying routine surge for poison control telephone response systems. 10th International Congress on Nursing Informatics, Helsinki, Finland, June 2009. (poster)

Thomas KC, Redmond M, Thomsen G, Crouch BI, **Caravati EM**. Acute respiratory failure and death associated with acrolein exposure during routine application. Clin Toxicol 2008;46:606. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA September 14, 2008. (poster)

Marshall SW, Crouch BI, **Caravati EM**. Lessons to be learned: A poison center's use of digital call recordings. Clin Toxicol 2008;46:624. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA September 2008. (poster

Anderson KT, **Caravati EM**, Seger CJ. Serious toxicity in an infant due to ingestion of 1 mg risperidone. Clin Toxicol 2008;46:629. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA September 16, 2008. (poster)

Bennett H, Poynton MR, Ellington L, Jasti S, Crouch B, Caravati M. Perceived severity of clinical effects from toxic exposures reported to a poison control center. Clin Toxicol 2008;46:6638. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA September 15, 2008. (poster)

Anderson KT, **Caravati EM**, Dahl B, Crouch BI. Effect of the AAPCC iron management guideline on the triage and outcome of children's multivitamin with iron ingestions reported to a poison control center. . Clin Toxicol 2008;46:634. Presentation at the North American Congress of Clinical Toxicology. Toronto, CA September16, 2008. (poster) **Caravati EM**, Stromness JR, Crouch BI, Yarris JP, McKeown NJ, Horowitz BZ. Pediatric ingestion of ant bait gel results in arsenic toxicity. Clin Toxicol 2008; (in press). Presentation at the European Association of Poison Centers and Clinical Toxicologists XXVII International Congress, Seville, Spain, May 9, 2008. (poster)

Crouch BI, **Caravati EM**, Cook L, et. al. Epidemiology of Carbon Monoxide Poisoning in a Linked Statewide Database. Therapeutic Drug Monitoring 2007;29(4): 502-503. Presentation at 10th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, September 9-14, 2007, Nice, France.

Oliver S, Crouch BI, **Caravati EM**. Pediatric Coin Ingestions Reported to a Regional Poison Center. Clin Toxicol 2007;45:614. Presentation at the North American Congress of Clinical Toxicology. New Orleans, LA, October 2007. (poster)

Anderson K, **Caravati EM**, Crouch D. Breath Alcohol Analyzers Detect Methanol as Ethanol In Vitro. Clin Toxicol 2007;45:637. Presentation at the North American Congress of Clinical Toxicology. New Orleans, LA, October 2007. (poster)

Rogers SC, Pruitt CW, Crouch D, **Caravati EM**. Rapid Urine Drug Screens: Diphenhydramine and Methadone Cross-reactivity. Clin Toxicol 2007;45:629-630. Presentation at the North American Congress of Clinical Toxicology, New Orleans, LA, October 2007. (poster)

Caravati EM, Roper W, Crouch BI. Trends in ethylene glycol poisoning and treatment reported to US poison centers, 2000-2004. Clin Toxicol 2007;45(4):363. Presentation at the European Association of Poison Centers and Clinical Toxicologists XXVII International Congress, Athens, Greece, May 3, 2007. (poster)

Marshall SW, **Caravati EM**. Hand weakness and paresthesias from Conus magus (cone snail) envenomation. Clin Toxicol 2006;5:644. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 6, 2006. (poster

Dahl B, Anderson K, Apfelbaum J, Caravati M. Fatal arrhythmia from bupropion overdose. Clin Toxicol 2006;5:658. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 6, 2006. (poster)

Moltz E, Crouch BI, **Caravati EM**. Pediatric exposures involving 10-fold dosing errors with metochlopramide reported to US poison centers. Clin Toxicol 2006;5:665. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 8, 2006. (poster)

Anderson K, **Caravati EM**, Crouch BI, Jensen H. Breath alcohol analyzer mistakes methanol for ethanol. Clin Toxicol 2006;5:734. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 9, 2006. (poster)

Marshall SW, Crouch BI, **Caravati EM**. Correctional facility exposures reported to a regional poison center. Clin Toxicol 2006;5:754. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 9, 2006. (poster)

Moltz E, Crouch BI, **Caravati EM**. Pediatric exposures involving 10-fold dosing errors reported to US poison centers. Clin Toxicol 2006;5:770. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 9, 2006. (poster)

Ellington L, Matwin S, Sheldon LK, Crouch BI, **Caravati EM**. Jasti S. Examination of poison control communication. Clin Toxicol 2006;5:781. Presentation at the North American Congress of Clinical Toxicology, San Francisco, CA, October 8, 2006 (platform).

Poynton, M, Jasti, S, Ellington, L, Dudley, W, Crouch, B, Caravati, M, Williamson, J. Matching waveform

audio files with Toxicall data: Record linkage in a poison control center. Stud Health Technol Inform 2006;122:849. 9th International Congress on Nursing Informatics, Seoul, South Korea, June 2006 (poster).

Anderson K, Dahl B, Habis A, **Caravati EM**. Serious Liver Injury from an Acute Pediatric Acetaminophen Ingestion. Clin Toxicol 2005;43:660. Presentation at North American Congress of Clinical Toxicology, Orlando, FL, September 11, 2005. (poster)

Dandoy CE, Crouch BI, **Caravati EM**. Masking the smell and taste of acetylcysteine (NAC): what is the best option? Clin Toxicol 2005;43:672. Presentation at North American Congress of Clinical Toxicology, Orlando, FL, September 11, 2005. (poster)

Moltz E, Marshall S, Andrenyak D, Crouch D, Moon M, **Caravati EM**, Crouch BI. Strychnine Poisoning Following Ingestion of a Chinese Herbal Liniment. Clin Toxicol 2005;43:645. Presentation at North American Congress of Clinical Toxicology, Orlando, FL, September 11, 2005. (poster)

Porucznik C, Grey T, Nangle B, Rolfs RT, **Caravati EM**. Increase in Drug Overdose Deaths in Utah, 1991-2003. 2005 Public Health Conference for Utah, Salt Lake City, UT, May 10, 2005. (platform)

Porucznik CAP, **Caravati EM**, Grey T, Nangle B, Rolfs RT. Increasing numbers of deaths due to poisoning by non-illicit drugs-Utah, 1991-2003. EIS conference, Atlanta, April 2005. (platform)

Majersik J, Steffens J, **Caravati EM**. Chronic Exposure to 1-Bromopropane Associated with Spastic Paraparesis and Distal Neuropathy: A Report of Six Foam Cushion Gluers. Annals of Neurology 2004 Vol 56 Supplement 8 page S69. Presented at the 129th Annual Meeting of the American Neurological Association, Toronto, Ontario, Canada, October 2004. (poster)

Stromness J, Bennett HKW, Crouch BI, **Caravati EM**. Mercury thermometer exchange project. J Toxicol Clin Toxicol 2004;42:773. Presented at North American Congress of Clinical Toxicology, Seattle, October 2004. (poster)

Moltz E, Crouch BI, **Caravati EM**. HALLUCINOGENIC AMPHETAMINES AND TRYPTAMINES: ANALYSIS OF TESS DATA FROM 1997-2003. J Toxicol Clin Toxicol 2004;42:763-4. Presented at North American Congress of Clinical Toxicology, Seattle, October 2004. (poster)

Anderson K, Dahl B, **Caravati EM**, Crouch BI. Severe oral and esophageal irritation following ingestion of presumed taro root. J Toxicol Clin Toxicol 2004;42:800. Presented at North American Congress of Clinical Toxicology, Seattle, October 2004. (poster)

Fosnocht DE, **Caravati EM**: Does This Medication Contain Acetaminophen? Ann Emerg Med 2003; American College of Emergency Physicians (ACEP) Annual Research Forum, Boston, Oct. 2003. (poster)

Caravati EM, Juenke JM, Crouch BI. In-Vitro effects of quetiapine on tricyclic antidepressant immunoassays. J Tox Clin Toxicol 2003;41:735. Presented at North American Congress of Clinical Toxicology, Chicago, Sept. 9, 2003. (poster)

Seifert SA, **Caravati EM**. Crouch DJ. Atropine overdose from a pharmacy compounding error. J Tox Clin Toxicol 2003;41:648. Presented at North American Congress of Clinical Toxicology, Chicago, Sept. , 2003. (poster)

Hunter H, Crouch BI, **Caravati EM**. Pharmacy Students as Poison Prevention Educators. J Tox Clin Toxicol 2003;41:703. North American Congress of Clinical Toxicology, Chicago, Sept. 2003. (poster)

Dahl B, **Caravati EM**. Intracranial hemorrhage associated with ingestion of tobacco snuff. J Tox Clin Toxicol 2003;41:673. North American Congress of Clinical Toxicology, Chicago, Sept. 2003. (poster)

Beck B, **Caravati EM**. Neurotoxicity Associated with Chronic 1-Bromopropane Exposure. J Tox Clin Toxicol 2003;41:729. North American Congress of Clinical Toxicology, Chicago, Sept. 9, 2003. (poster) Hunter H, Crouch BI, **Caravati EM**. Pharmacy Students as Poison Prevention Educators. J Tox Clin Toxicol 2003;41:703. North American Congress of Clinical Toxicology, Chicago, Sept. 2003. (poster

Bennett HKW, Crouch BI, **Caravati EM**. Computerized customer satisfaction survey. J Tox Clin Toxicol 2003;41:684-685. North American Congress of Clinical Toxicology, Chicago, Sept. 2003. (poster)

Caravati EM, Herman B: Treatment of Two Adolescent Girls with Severe Ethylene Glycol Poisoning without Hemodialysis. J Tox Clin Toxicol 2001;39:481. Presented at North American Congress of Clinical Toxicology, Montreal, Canada, Oct. 6, 2001. (poster)

Grover J, **Caravati EM**. Right Bundle Branch Block and Delayed Seizure Associated With Citalopram and Fluoxetine Ingestion. J Tox Clin Toxicol 2001;39:491. North American Congress of Clinical Toxicology, Montreal, Canada, Oct. 6, 2001. (poster)

Green D, **Caravati EM**. Coma in a Toddler from Low-dose cariosprodol. J Tox Clin Toxicol 2001;39:503. North American Congress of Clinical Toxicology, Montreal, Canada, Oct. 7, 2001. (poster)

Dahl B, **Caravati EM**. Surreptitious Brodifacoum Poisoning. . J Tox Clin Toxicol 2001;39: 475-476. North American Congress of Clinical Toxicology, Montreal, Canada, Oct. 6, 2001. (poster)

Crouch BI, **Caravati EM**, Comes P: Trends in child and teen OTC drug abuse in Utah. 2000 American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting, Las Vegas, NV, Dec. 6, 2000.

Caravati EM, Grover J: Arsine poisoning from recycling of computer chips. J Toxicol: Clin Toxicol 2000;38:543-544. North American Congress of Clinical Toxicology, Tucson, AZ, Sept. 17, 2000. (poster)

Grover J, **Caravati EM**: Oral overdose of N-acetylcysteine in an infant. J Toxicol: Clin Toxicol 2000;38:571-572. North American Congress of Clinical Toxicology, Tucson, AZ, Sept. 18, 2000. (poster)

Stromness J, Crouch BI, **Caravati EM**: Lead exposures from indoor firing ranges. J Toxicol: Clin Toxicol 2000;38:547. North American Congress of Clinical Toxicology, Tucson, AZ, Sept 17, 2000. (poster)

Grover J, Dahl B, Caravati M: Death Camus: Mistaken identity at an herb farm. J Toxicol: Clin Toxicol 1999;37:618-619. North American Congress of Clinical Toxicology, La Jolla, CA, Oct. 2, 1999.(poster)

Caravati EM, Dahl B, Crouch BI: Severe anaphylaxis from gila monster envenomation. J Toxicol: Clin Toxicol 1999;37:613. North American Congress of Clinical Toxicology, La Jolla, CA, Oct. 2, 1999.(poster)

Diller EM, Crouch BI, Martin AC, **Caravati EM**: Clinical manifestations of poisonings in the elderly. J Toxicol: Clin Toxicol 1999;37:594. North American Congress of Clinical Toxicology, La Jolla, CA, Oct. 1, 1999.(poster)

Martin AC, **Caravati EM**, Crouch BI, Diller EM: Poison exposures in the elderly: A five-year descriptive study. J Toxicol: Clin Toxicol 1999;37:593. North American Congress of Clinical Toxicology, La Jolla, CA, Oct. 1, 1999. (poster)

Crouch BI, Cook L, **Caravati EM**, Dean JM: Probabilistic linking of poison center data to other healthcare databases. J Toxicol: Clin Toxicol 1998;36:500. North American Congress of Clinical Toxicology, Orlando, FL, Sept. 1998 (platform).

Bjerk PJ, **Caravati EM**: Severe diarrhea, gastritis, and metabolic acidosis secondary to toluene ingestion. J Toxicol: Clin Toxicol 1996; 34:573-574. North American Congress of Clinical Toxicology, Portland, OR, Oct. 1996 (poster).

Yerman B, Tseng J, **Caravati EM**: Pediatric acetaminophen ingestion: Prospective study of referral criteria. J Toxicol: Clin Toxicol 1995;33:530. North American Congress of Clinical Toxicology, Rochester, NY, Sept. 17, 1995 (poster).

Apfelbaum JD, **Caravati EM**, Kerns WP, Bossart PJ, Larsen G. Cardiovascular effects of carbamazepine toxicity. Ann Emerg Med 1994; 23:631. 1994 ACEP Research Forum, San Diego, CA, March 20, 1994.

Herr RD, **Caravati EM**, Tyler LS, lorg E: Prospective evaluation of adverse drug interactions in the emergency department. Ann Emerg Med 1992; 21:660. SAEM Annual Scientific Meeting, Toronto, Ontario, May 28, 1992 (poster).

Larsen G, **Caravati EM**. Electrocardiographic effects of carbamazepine toxicity. Vet Hum Toxicol 1991; 33:365. AACT/AAPCC/ABMT/CAPCC* Annual Meeting, Toronto, Ontario, Oct. 2, 1991 (platform).

Caravati EM, Herr R. Use of simultaneous arterial and venous blood gases to detect elevated cyanide levels in burn patients. Vet Hum Toxicol 1991; 33:361. AACT/AAPCC/ABMT/ CAPCC Annual Meeting, Toronto, Ontario, Oct. 1, 1991 (poster).

Caravati EM, Bossart PJ: Initial electrocardiographic findings associated with major tricyclic antidepressant toxicity. Vet Hum Toxicol 1990; 32:342. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Tucson, AZ, Sept. 17, 1990 (poster)

Caravati EM, Wallace DE: Anaphylactic reactions to snake venom. Vet Hum Toxicol 1990; 32:366. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Tucson, AZ, Sept. 17, 1990 (poster)

Taylor CL, **Caravati EM**, Rollins DE: Pediatric poisoning from elemental mercury in the home. Vet Hum Toxicol 1989; 31:351. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Atlanta, GA, Oct. 1989 (poster).

Taylor CL, Rollins DE, **Caravati EM**: Severe prolonged coagulopathy following snake envenomation. Vet Hum Toxicol 1989; 31:361. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Atlanta, GA, Oct. 1989 (poster).

Caravati EM, McElwee NE; Toxicology resource utilization by emergency physicians. Vet Hum Toxicol 1989; 31:366, Ann Emerg Med 1990; 19:629-630. AAPCC/AACT/ABMT/ CAPCC Annual Meeting, Atlanta, GA, Oct. 1989 (poster).

Hartsell SC, **Caravati EM**, Glenn J: Gila monster bites: Three cases of envenomation. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Atlanta, GA, Oct. 1989 (poster).

Runge JW, Martinez JC, **Caravati EM**, et al: Cimetidine in the treatment of acute allergic reactions. Ann Emerg Med 1989; 18:475. Society for Academic Emergency Medicine Annual Scientific Meeting, San Diego, CA, May 1989 (oral).

Bennett DL, **Caravati EM**: Coin ingestion: A prospective study on the use of routine radiographs. Vet Hum Toxicol 1988; 30:354. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Baltimore, MD, Oct. 1988 (oral).

Wolfe TR, **Caravati EM**, Rollins D: The terminal 40 ms frontal plane QRS axis as a marker for tricyclic antidepressant overdose. Ann Emerg Med 1988;17:404. University Association for Emergency Medicine Annual Scientific Meeting, Cincinnati, OH, May 1988 (oral).

Bennett DL, **Caravati EM**, Veltri JC: Long-acting anticoagulant ingestion: A prospective study. Vet Hum Toxicol 1987; 29:472. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Vancouver, BC, Sept. 1987 (poster).

Caravati EM, McElwee NE, VanTrigt M, et al: Carbon monoxide fetotoxicity. Vet Hum Toxicol 1987; 29:460. AAPCC/AACT/ABMT/CAPCC Annual Meeting, Vancouver, BC, Sept. 1987 (poster).

*AACT/AAPCC/ABMT/CAPCC – American Academy of Clinical Toxicology, American Association of Poison Control Centers, American Board of Medical Toxicology, Canadian Association of Poison Control Centers.

INVITED LECTURES (2000-2018)

"The Poisoned Patient in the Pediatric Intensive Care Unit". Pediatric Critical Care Program, Primary Children's Hospital, Salt Lake City, UT. May 1, 2017 (25 attendees)

"Toxicokinetics of Vitamin K Antagonists in Overdose: Optimizing Vitamin K Therapy", International Congress of the European Association of Poison Centres and Clinical Toxicologists, Madrid, Spain, May 24, 2016. (175 attendees)

"Pat McKinney Memorial Lecture – The Pendulum of GI Decontamination: Is There a Baby in the Bath Water", Department of Emergency Medicine Grand Rounds, University of New Mexico, Albuquerque, NM. March 31, 2016 (110 attendees)

Expert Panel Discussant, Acute and Intensive Care Symposium, 2015 North American Congress of Clinical Toxicology, San Francisco, CA, US, October 11, 2015. (350 attendees)

"Toxidromes and Antidotes", Veterans Administration Hospital, Internal Medicine Residency Program, Sept 17, 2015 (25 attendees)

Session Chair, Medicine abuse symposium, International Congress of the European Association of Poison Centres and Clinical Toxicologists, Malta,. May 29, 2015 (200 attendees)

"Visual Diagnosis in Poisoning", Hospital Authority Toxicology Services Scientific Conference 2014, Hong Kong, China, November 7, 2014 (250 attendees)

"Gastrointestinal Decontamination for Acute Poisoning: What is the Evidence?", Hospital Authority Toxicology Services Scientific Conference 2014, Hong Kong, China, November 7, 2014 (250 attendees)

Moderator, "Challenges and Opportunities at the Bedside: Adequately treating pain while avoiding adverse outcomes." Prescription Drugs and Poisoning Symposium, College of Pharmacy, Salt Lake City, Utah, October 2, 2014. (150 attendees)

"What Makes a High Quality Case Report Describing an Adverse Drug Event?" North American Congress of Clinical Toxicology, AACT Pre-Meeting Symposium: Adverse Drug Events – From Public Health to Molecular Mechanisms. Atlanta, GA, US. September 27, 2013, (250 attendees).

"How to publish in Clinical Toxicology", IV Brazilian Congress of Clinical Toxicology and 1st Symposium on Analytical Toxicology for Poison Control Centers, Águas de Lindóia, São Paulo, Brazil, August 22 to 24, 2012.

"Toxic exposure to elemental mercury: when and how to treat", IV Brazilian Congress of Clinical Toxicology and 1st Symposium on Analytical Toxicology for Poison Control Centers, Águas de Lindóia, São Paulo, Brazil, August 22 to 24, 2012.

"Evidence-based guidelines for the management of intoxicated patients", IV Brazilian Congress of Clinical Toxicology and 1st Symposium on Analytical Toxicology for Poison Control Centers, Águas de Lindóia, São Paulo, Brazil, August 22 to 24, 2012. "Specialist discrimination of toxic exposure severity at a Poison Control Center" IV Brazilian Congress of Clinical Toxicology and 1st Symposium on Analytical Toxicology for Poison Control Centers, Águas de Lindóia, São Paulo, Brazil, August 22 to 24, 2012.

"Gastrointestinal Decontamination Position Statements Update." International Congress of the European Association of Poison Centres and Clinical Toxicologists. London, UK. May 30, 2012

Session Chair, Poster Discussion Session, International Congress of the European Association of Poison Centres and Clinical Toxicologists, Dubrovnik, Croatia, May 27, 2011. (250 attendees)

"The Role of the Poison Center in Hazardous Materials Incidents-A Research Source." Advanced Life Support Response to Hazardous Materials Incidents, Salt Lake Metropolitan Medical Response System, August 9, 2010. (30 attendees)

"HazMat Toxidromes", Advanced Life Support Response to Hazardous Materials Incidents, Salt Lake Metropolitan Medical Response System, August 9, 2010. (30 attendees)

"HazMat Antidotes Review", Advanced Life Support Response to Hazardous Materials Incidents, Salt Lake Metropolitan Medical Response System, August 9, 2010. (30 attendees)

"Toxic Vapors and Gasses", Advanced Life Support Response to Hazardous Materials Incidents, Salt Lake Metropolitan Medical Response System, August 10, 2010. (30 attendees)

"Clandestine Methamphetamine Laboratories: Dangers and Occupational Hazards", Advanced Life Support Response to Hazardous Materials Incidents, Salt Lake Metropolitan Medical Response System, August 10, 2010. (30 attendees)

Session Chair, Young Investigator Award Platform Session, International Congress of the European Association of Poison Centres and Clinical Toxicologists, Bordeaux, France, May 13, 2010.

Moderator, European Association of Poison Centers and Clinical Toxicologists Symposium: "Antidotes for Poisoning: An Update on the Evidence" at the North American Congress of Clinical Toxicology, Toronto, Canada, September 13, 2008. (250+ attendees)

"Poisons in the News: Arsenic, Lead, Mercury", Utah Poison Control Update Conference, Salt Lake City, UT, May 29, 2008. (65 attendees)

"Insecticide Toxicology" Advanced Topics in Occupational Medicine Course, Division of Occupational Medicine, University of Utah, June 1, 2007 (8 attendees)

"Case Presentation: Arsenic Poisoning", Internal Medicine Residency Conference, Univ of Utah, February 14, 2007 (20 attendees).

Moderator, "Drug Abuse and Addiction: Getting High, Getting Hooked and Getting Help", AACT Symposium at NACCT, San Francisco, October 5, 2006.

"Neurotoxicity of 1-Bromopropane in the Workplace", Occupational Medicine Residency Program, University of Utah, March 24, 2006 (10 attendees)

"Toxicology Case Presentations for Neurologists", Department of Neurology Resident Conference, University of Utah, January 20, 2006 (15 attendees)

"Chronic Exposure to 1-Bromopropane Associated with Spastic Paraparesis and Distal Neuropathy", North American Congress Clinical Toxicology, Orlando, FL, September 14, 2005, (75 attendees)

"Medical Emergencies: The Poisoned Patient", Internal Medicine Residents Lecture Series, UUMC, LDS Hospital and VA Hospitals, July 2005. (3 lectures, 75 attendees total)

"Chemical Agents of Mass Destruction", Emergency Preparedness in the Healthcare Setting: Bioterrorism and other WMD conference, Utah Department of Health, Price, Utah, May 30, 2003. (30 attendees)

"Health Risks Associated with Investigating Methamphetamine Labs", First Annual Drug Endangered Children Conference, Sheraton Hotel, Salt Lake City, UT, March 28, 2003. (100 attendees).

"Methamphetamine Toxicologic Risk for Public Safety and Decontamination Workers", Occupational Medicine Grand Rounds, LDS Hospital, Salt Lake City, Utah, November 1, 2001.

"Bioterrorism II", Conference Panel Member, Division of Infectious Disease, University Hospital, October 29, 2001.

"Hemolysis and elevated serum arsenic from arsine gas poisoning". Occupational Disease Seminar, MPH Program, University of Utah, April 7, 2000.