

7:00 am – 5:00 pm
Centennial Foyer
3rd Floor

Speaker Ready Room

7:00 am – 8:00 am
Centennial Foyer
3rd Floor

ACMT Pre-Meeting Symposium: Euphoria & Dysphoria
Registration/Information

7:00 am – 8:00 am
Centennial Foyer
3rd Floor

Continental Breakfast

8:00 am – 4:00 pm
Centennial Ballroom
A-C, 3rd Floor

ACMT Pre-Meeting Symposium: Euphoria & Dysphoria
Moderators: Michele Burns Ewald, MD, FACMT

Receptor Physiology: Sending the Right Signal

Silas W. Smith, MD Assistant Professor, Emergency Medicine Assistant Director, Fellowship in Medical Toxicology New York University School of Medicine New York, New York, USA Attending Physician Bellevue Hospital Center and NYU Langone Medical Center New York, New York, USA

Opioid Abuse-Deterrent Technology: We Can Make It Better, Stronger, Faster.....Maybe

Tammi H. Schaeffer, DO Assistant Clinical Professor University of Colorado, Denver-School of Medicine Rocky Mountain Poison and Drug Center-Denver Health Denver, CO USA

ADHD Medications: Tales of Abuse, Misuse, and Perilous Polypharmacy

Katie O'Donnell, MD, FAAP Instructor of Pediatrics Harvard Medical School Attending Physician Children's Hospital Boston Boston, MA

Designer Drugs of Abuse: Not as Designed

Michael Levine, MD. Attending physician. Department of Medical Toxicology. Banner Good Samaritan Medical Center. Phoenix, AZ

Neonatal Abstinence Syndrome (NAS): Not A Simple Problem

Michele Burns Ewald, MD, FACMT Assistant Professor of Pediatrics Harvard Medical School Boston, MA, USA Attending Physician Children's Hospital Boston Boston, MA, USA

Opioid Withdrawal: A Painful Craving

D. Eric Brush, MD, FACEP, FACMT Assistant Professor, Emergency Medicine University of Massachusetts Medical School Worcester, MA

Ethanol Withdrawal: Beyond the Hair of the Dog

Binh T. Ly, MD, FACMT, FACEP Associate Professor, Director, Medical Toxicology Fellowship Director, Emergency Medicine Residency University of California San Diego Medical Center San Diego, CA, USA

A Century of Withdrawal: 100 Years Of Progress From Bedside To Bench

Mark B. Mycyk, MD, FACMT Associate Professor Rush Medical College Chicago, IL, USA Attending Physician Cook County Hospital (Stroger) Chicago, IL, USA

At the end of this session, the participant should be able to:

1. Describe the basic physiology of common neurotransmitter receptors involved in human mood
2. Discuss how xenobiotics may alter receptor functioning
3. Describe the recent trend in opiate/opioid drug diversion and misuse
4. Discuss the technology and ramifications of abuse-deterrent strategies in pharmaceuticals
5. Describe the epidemiology and toxicities of ADHD medication abuse and misuse in pediatric and adult populations
6. Describe several examples of toxicity due to polypharmacy regimens for management of ADHD
7. Discuss new and emerging designer drugs of abuse
8. Discuss the pharmacology, toxicity, and therapy associated with designer drugs of abuse
9. Describe the major xenobiotics implicated in NAS and their pathophysiology
10. Discuss the clinical presentation and treatment modalities for NAS
11. Discuss the mechanisms of hyperalgesia experienced by opioid addicts not only in withdrawal but also in active users
12. Discuss the concept of opioid craving from a behavioral and neurochemical perspective
13. Review the treatment of pain in both the inpatient and outpatient settings
14. Describe current understanding of neuroadaptive mechanisms to chronic ethanol exposure and clinical manifestations following abstinence
15. Discuss novel pharmacotherapeutic options in the treatment of acute ethanol withdrawal
16. Review how historic bedside observations of withdrawal continue to predict recent bench breakthroughs in neurophysiology
17. Discuss how the evolving model of ethanol withdrawal provides the foundation for understanding withdrawal from all other xenobiotics

8:00 am – 6:00 pm AACT Board Meeting
Mineral Hall FG
3rd Floor

11:45 am – 1:00 pm ACMT Business Meeting
Mineral Hall ABC
3rd Floor

12:00 pm – 6:00 pm ABAT Certification Examination
Mineral Hall D
3rd Floor

7:00 am – 6:00 pm Centennial Foyer 3 rd Floor	Speaker Ready Room
7:00 am – 8:00 am Centennial Foyer 3 rd Floor	<u>AACT Pre-Meeting Symposium: <i>Building Bridges in Toxicology: from Bench to Bedside</i></u> Registration/Information
7:00 am – 8:00 am Centennial Foyer 3 rd Floor	Continental Breakfast
8:00 am – 1:00 pm Mineral Hall D 3 rd Floor	ABAT Certification Examination
8:00 am – 5:00 pm Mineral Hall E 3 rd Floor	ACMT Board Meeting
8:00 am – 5:00 pm Mineral Hall A 3 rd Floor	ABAT Board Meeting
8:00 am – 4:40 pm Centennial Ballroom A-C 3 rd Floor	<u>AACT Pre-Meeting Symposium: <i>Building Bridges in Toxicology: from Bench to Bedside</i></u> Moderators: Rachel Haroz, MD Assistant Professor of Emergency Medicine University of Medicine and Dentistry of New Jersey-Camden Camden, NJ Barbara Kirrane, MD Assistant Professor, Emergency Medicine/Medical Toxicology Yale University, New Haven, CT

Plenary Session 1: Perspectives on Research in Toxicology

8:25-9:10am	<i>Research in Clinical Toxicology - Why the Methodologists are Wrong</i> Milton Tenenbein, M.D., FRCPC, FAAP, FAACT, FACMT Department of Pediatrics & Pharmacology University of Manitoba Children's Hospital Winnipeg, Manitoba, Canada
9:10-9:20	Q&A

- 9:20-10:00am** ***A Framework for Studying Genetic and Epigenetic Susceptibility to Toxic Chemicals***
Robert O. Wright M.D., M.P.H.
Associate Professor of Pediatrics and Environmental Health
Harvard Medical School
Director Metals Research Core Laboratory, Center for Environmental Health,
Harvard School of Public Health
Department of Emergency Medicine
Children's Hospital
Boston, Massachusetts
- 10:00-10:10** **Q&A**
- 10:10-10:20** **BREAK**
- 10:20-11:00** ***Advantages & Pitfalls of Using Animals in Toxicology Research***
Timothy J. Maher, Ph.D.
Professor of Pharmacology
Sawyer Professor of Pharmaceutical Sciences
Chairman, Department of Pharmaceutical Sciences
Massachusetts College of Pharmacy and Health Sciences
Boston, Massachusetts
- 11:00-11:10** **Q&A**

Plenary Session 2: Body Systems: Research & the Pathogenesis of Clinical Toxicity

DERMATOLOGY

- 11:10-11:50** ***Update in Severe Cutaneous Adverse Reactions***
David A. Hess PhD Assistant Professor, Department of Physiology &
Pharmacology, The University of Western Ontario Scientist, Robarts Research
Institute, London, ON, Canada,
- 11:50-Noon** **Q&A**
- 12:00-1:15pm** **LUNCH ON YOUR OWN**

FEATURED LECTURE

- 1:15-1:50** ***Getting into Print: The Do's & Don't's***
Prof D N Bateman B.Sc. M.D. FRCP FRCP(E) FBPharmacolS FBTS FAACT
Editor In Chief: *Clinical Toxicology*
Director, National Poisons Information Service - Edinburgh
Professor of Clinical Toxicology
Royal Infirmary of Edinburgh, UK
- 1:50-2:00** **Q&A**

RENAL

2:00-2:40pm ***The Dialysis Machine: Where the Toxicologists & Nephrologists Meet***
David S Goldfarb, M.D.
Chief, Nephrology Section
New York Harbor VA Medical Center
Professor of Medicine & Physiology
New York University Langone Medical Center
Consultant New York City Poison Control Center
New York City, New York

2:40-2:50 **Q&A**

HEPATOLOGY

2:50-3:30pm ***Hepatic Toxins: Principles of Pathogenesis***
Kathleen Delaney, M.D.
Professor, Division of Emergency Medicine
University of Texas Southwestern Medical School
Director of Faculty Development
Louisiana State University
Emergency Medicine Residency Program
Baton Rouge, Louisiana

3:30-3:40 **Q&A**

NEUROLOGY

3:40-4:20 ***Human and Mini-pig Studies on OP Pesticide Poisoning***
Michael Eddleston, Ph.D., FRCP
Edin Scottish Senior Clinical Fellow, Clinical Pharmacology Unit,
University of Edinburgh
National Poisons Information Service - Edinburgh
Royal Infirmary of Edinburgh, UK

4:20-4:30 **Q&A**

4:30-4:40pm **Summation & Evaluations**

At the end of this session, the participant should be able to:

1. Review the principles of evidence based medicine as it pertains to research in clinical toxicology
2. Discuss the issues regarding robust subject selection for clinical toxicology randomized controlled trials
3. Describe the role of genetics (i.e. DNA sequence variation) in predicting the response to a chemical toxin or toxicant.
4. Discuss the role of epigenetics in predicting the response to a chemical toxin or toxicant.
5. Review the limitations of information obtained from animal studies in predicting safety in humans
6. Discuss the role of both in vivo and in vitro studies in toxicology research
7. Describe the diversity of syndromes produced by OP pesticides.
8. Discuss the effectiveness of antidotes for OP pesticide poisoning and explore the reasons why antidotes may not be effective.
9. Describe the process of peer-reviewed publication and where to submit their report.
10. Discuss how to plan an article, optimize paper presentation, and respond to referees' reports.
11. Describe properties that make drugs amenable to removal by extracorporeal modalities.
12. Discuss the pharmacology of xenobiotics for which dialysis is an appropriate therapy.
13. Review data regarding efficacy of CVVH (continuous venovenous hemodialysis).
14. Discuss the role of the liver in the detoxification of specific xenobiotics at the cellular level.
15. Describes mechanisms of injury by toxins that are associated with specific light microscopic manifestations of injury.
16. Review the current diagnostic categories of severe cutaneous reactions
17. Discuss new concepts in the pathogenesis of severe cutaneous reactions
18. Describe evidence-based treatment for severe cutaneous reactions

1:00 pm – 5:00 pm Centennial Foyer 3rd Floor	<u>NACCT Main Congress: Registration/Information</u>
1:00 pm – 5:00 pm Centennial Ballroom F-H 3rd Floor	Exhibit/Poster Session I Set Up Abstracts # 9-78
1:00 pm – 5:00 pm Mineral Hall Foyer	Public Educator Displays Set – Up
5:30 pm – 10:00 pm Mineral Hall G 3rd Floor	AAPCC Accreditation Committee
5:15 pm – 7:15 pm Centennial Ballroom A-C 3rd Floor	<u>ACMT Medical Toxicology 12th Annual CPC Competition</u> Moderator: Jeffrey Suchard, MD, FACMT, FACEP

At the end of this session, the participant should be able to:

1. Formulate an approach to the diagnosis of complex poisoning cases based on limited data
2. Describe the management of several unique poisonings
3. Identify potential pitfalls in the diagnostic approach to poisoned patients

6:00 pm – 7:00 pm
Mineral Hall C
3rd Floor

PEC Meet and Greet

7:15 pm – 8: 15 pm
Granite C
3rd Floor

AAPCC Staff Development

7:15 pm – 8:15 pm
Granite B
3rd Floor

AAPCC Mid Year Planning Meeting

7:15 pm – 8:15 pm
Mineral Hall E
3rd Floor

AAPCC Benchmarking/QA/Audit

7:15 pm – 11:15 pm
Mineral Hall D
3rd Floor

AAPCC SPI Committee Meeting

8:15 pm – 9:15 pm
Mineral Hall A
3rd Floor

AAPCC Medical Directors

7:00 am – 5:00 pm Centennial Foyer 3 rd Floor	Speaker Ready Room
6:30 am – 5:00 pm Centennial Foyer 3 rd Floor	Registration/Information
6:00 am – 7:30 am Centennial Foyer 3 rd Floor	Continental Breakfast
7:30 am – 9:00 am Centennial Ballroom A-E 3 rd Floor	<u>NACCT Opening Keynote Presentation:</u> <i>Opening Remarks</i> Michael Greenberg, MD, MPH, FAACT, FACMT President, American Academy of Clinical Toxicology <i>Asymmetric conflicts and the use of Carcinogenic, Genotoxic and Neurotoxic Chemical/Biological/Radiological/Nuclear (CBRN) Agents; The Vulnerability of Civilians- Lessons from Halabja, Northern Iraq</i> Christine M. Gosden, MD Division of Pathology, Faculty of Health and Life Sciences, University of Liverpool, Royal Liverpool University Hospital,
9:00 am – 4:00 pm Centennial Ballroom F-H 3 rd Floor	Exhibits/Poster Session I Abstracts #9-78
9:00am – 10:00 am Centennial Ballroom F-H 3 rd Floor	Authors with Posters
9:00 am – 5:00 pm Mineral Hall Foyer 3 rd Floor	Poison Control Center Displays
9:00 am – 5:00 pm Granite C 3 rd Floor	Toxicall Training
9:30 am – 10:30 am Mineral Hall DE 3 rd Floor	PEC News & New Educators' Orientation
10:00 am – 10:10 am Centennial Ballroom A-E 3 rd Floor	<u>International Travel Awards Recognition</u> Moderator: Daniel Cobaugh, PharmD, DABAT, FAACT

10:10 am – 12:00 pm
Centennial Ballroom
A-E 3rd Floor

AACT Scientific Symposium: Lipid Infusion: The Science Behind a New Treatment Modality
Moderators: Donna Seger, MD, FAACT, FACEP, ABMT
Alan Woolf, MD, MPH, FAACT, FACMT

Case Presentation

Donna Seger, MD, FAACT, FACEP, ABMT, Associate Professor of Medicine and Emergency Medicine, Vanderbilt University Medical Center, Medical Director TN Poison Center

Lipid Resuscitation and the Butterfly Effect

Guy Weinberg, MD Professor and Vice Head for Research Department of Anesthesiology University of Illinois at Chicago Jesse Brown VA Medical Center Chicago, IL

Lipid Infusion: the Science Behind a New Treatment Modality

Theodore C. Bania, MD, MS Assistant Professor of Clinical Medicine Columbia University, College of Physicians and Surgeons New York, NY Director of Toxicology and Research St. Luke's-Roosevelt Hospital Center New York, NY

At the end of this session, the participant should be able to:

1. Review the clinical use of lipid emulsion in lipophilic drug overdose
2. Discuss the current understanding of the mechanisms of lipid resuscitation
3. Review the mechanism of action of lipid infusions in the treatment of toxicity
4. List the uses of lipid infusions beyond local anesthetic toxicity

10:00 am – 5:00 pm
Mineral Hall F
3rd Floor

Simulation Center for Clinical Toxicology Training
Hosted By: AACT Acute & Intensive Care SIG

10:00 am – 7:00pm
Granite A
3rd Floor

Toxicology History Room

10:45 am – 5:00 pm
Mineral Hall BC
3rd Floor

PEC Education Track

12:00 pm – 1:00 pm Lunch Break

12:00 pm – 1:00 pm AACT Business Meeting
Mineral Hall DE
3rd Floor

12:00 pm – 1:00 pm ACMT Focus Group Meeting
Mineral Hall G
3rd Floor

12:00 pm – 1:00 pm AAPCC Managing Directors
Mineral Hall A
3rd Floor

1:00 pm – 3:00 pm
Centennial Ballroom
ABC, 3rd Floor

ABAT Symposium: Don't Tread on Me
Moderators: Mark Winter, PhD, DABAT
Robert Palmer, PhD, DABAT

Methods for reproduction, husbandry, and handling of venomous snakes at the Denver Zoo

Rick Haeffner, Curator of Reptiles and Fishes, Denver Zoo

Salvation from salivation: drug discovery and snake venoms

Stephen P. Mackessy, MD, Professor of Biology School of Biological Sciences University of Northern Colorado, Greeley, CO

At the end of this session, the participant should be able to:

1. Discuss how venomous snakes are safely handled and maintained in U.S. zoos.
2. Describe the various techniques and safety measures used to maintain venomous snakes in U.S. zoo collections
3. Review multiple techniques used to induce reproduction of captive venomous snakes.
4. Review the basics of the varieties of venomous snakes existing worldwide and the biochemistry of their venoms.
5. List specific examples of venom components which are in use as drugs or which have been sources of drug design.
6. Describe ongoing research into venom sources for antineoplastic and antithrombotic drugs

1:00 pm – 3:00 pm
Centennial Ballroom
E, 3rd Floor

CAPCC Symposium: Use of Special Antidotes in Unusual Situations
Moderator: Martin Laliberté, MD, MSc, FRCPC

Silibinin for the treatment of amatoxin hepatotoxicity

Christopher DeWitt, MD, FACMT Department of Emergency Medicine and Pharmacology, University of British Columbia Saint Pauls Hospital and BC Drug and Poison Information Centre Vancouver, BC, Canada

Intubation and ventilation in severe salicylate poisoning

Jenny Lu, MD, MS Assistant Professor Dept. of Emergency Medicine, Division of Toxicology John H. Stroger, Jr. Hospital of Cook County Toxikon Consortium Chicago, IL

Chelation during renal failure: How to get the metal out

Michael J. Kosnett, MD, MPH Associate Clinical Professor Division of Clinical Pharmacology & Toxicology, Dept of Medicine University of Colorado Denver, and Colorado School of Public Health Denver, CO

At the end of this session, the participant should be able to:

1. Discuss the pathophysiology of amatoxin-induced hepatotoxicity
2. Review the literature on the use of silibinin for the treatment of amatoxin-induced hepatotoxicity
3. Describe the risk associated with intubation and ventilation in salicylate poisoning
4. Propose a therapeutic approach for mechanical ventilation in severe salicylate poisoning
5. Discuss how renal failure can disrupt normal pathways for the excretion of toxic metals
6. Review therapeutic approaches that combine chelation with extracorporeal methods of elimination

1:00 pm – 3:00 pm
Centennial Ballroom
D, 3rd Floor

ACMT Practice Symposium: Forensic Toxicology of Opioids

Moderator: Tammi Schaeffer, DO

Forensic Toxicology of Opioids

Michael G. Holland, MD, FAACT, FACMT, FACOEM, FACEP Clinical Assoc. Professor, Dept of Emergency Medicine, SUNY Upstate Medical University Medical Toxicologist, Upstate NY Poison Center; Syracuse, NY Attending Physician, Occupational Medicine; Glens Falls Hospital Center for Occupational Health; Glens Falls, NY

Forensic Case Studies in Opioid Toxicity

Jerrold B. Leikin MD, FACP, FACEP, FACOEM, FAACT, FACMT Professor of Medicine Rush Medical College Chicago, Ill. Director of Medical Toxicology North Shore University Health System - OMEGA Glenbrook Hospital, Glenview, Ill.

At the end of this session, the participant should be able to:

- 1 Describe the epidemiology of opioid abuse
- 2 Discuss the role of the Medical Toxicologist in Medical Examiner Cases
- 3 Review the principles of post-mortem redistribution as it applies to the forensic analysis of opioids.
- 4 Review the types of samples that should be obtained in forensic opioid cases and explain how to choose between them for specific agents
- 5 Discuss how to use the information from the toxicology report and other information available to determine the manner and cause of death when opioids are present
- 6 Cite examples of public health events influenced by Medical Examiner's determinations

3:00 pm – 4:00 pm Centennial Ballroom F-G, 3rd Floor	Refreshment Break
3:00 pm – 4:00 pm Mineral Hall G 3 rd Floor	AAPCC Board Member Orientation
3:00 pm – 4:00 pm Mineral Hall A 3 rd Floor	AAPCC PAST Committee Meeting
3:00 pm – 4:00 pm Mineral Hall D 3 rd Floor	AACT Forensics SIG Business Meeting
3:00 pm – 4:00 pm Mineral Hall E 3 rd Floor	AACT Herbal SIG Business Meeting
4:00 pm – 5:00 pm Centennial Ballroom F-G, 3 rd Floor	Poster Session I Tear Down
5:00 pm – 6:00 pm Centennial Ballroom F-G, 3 rd Floor	Poster Session II Set Up Abstracts # 83-152
4:00 pm – 5:00pm Centennial Ballroom A-E, 3rd Floor	<u>Platform Session I: Top 8 Abstracts</u> Abstract's #1-4 Moderators: Irma DeVries, MD Alan Woolf, MD, MPH, FAACT, FACMT
	<ol style="list-style-type: none"> 1. Aluminum Testing in Children: What Do Results and Reference Ranges Mean? Zeager MA, Woolf AD, Goldman RH. 2. Subclinical Nerve Fiber Dysfunction Following Acute Organophosphate (OP) Poisoning, Jayasinghe SS, Pathirana KD. 3. A Study Assessing the Content of Legal Highs Purchased from the Internet Dargan PI, Davies S, Smith G, Button J, Ramsey J, Holt DW, Wood DM. 4. Clinical Course of Bark Scorpion Envenomation When Antivenom is Unavailable, O'Connor AD, Ruha A-M.

At the end of this session, the participant should be able to:

3. Review the potential for significant toxicity from legal highs sold over the internet.
4. Describe the clinical course of bark scorpion envenomation in the absence of antivenom administration.

Saturday, October 9, 2010, continued

Conference Schedule

**5:00 pm – 6:00 pm
Centennial Ballroom
A-E, 3rd Floor**

Platform Session II: Top 8 Abstracts cont'd

Abstract's # 5-8

Moderators: Irma DeVries, MD

Alan Woolf, MD, MPH, FAACT, FACMT

5. Rapid Diagnosis of Poisonous Snakebites, Hung D-Z.
6. Legislation and Acetaminophen Overdose in a UK Hospital 2000–
2008 Laing WJ, Lupton DJ, Veiraiah A, Bateman DN.
7. Ionized Calcium as a Predictor of Mortality and Severity in Poisoning Patients. Lee MJ.
8. Poison Center Consultation Decreases Hospital Length of Stay and Inpatient Charges Kostic MA,1 Oswald J, Gummin DD, Kopp B,
Hargarten SW.

At the end of this session, the participant should be able to:

1. Describe an immunochromatographic method for rapid detection of cobra venom.
2. Discuss the effects of acetaminophen pack size restrictions on overdose trends in the UK.
3. Review the relationship between initial ionized calcium and fatal outcome in acute intoxication.
4. Discuss the impact of poison center consultation on overall patient care cost savings.

**6:00 pm – 7:00 pm
Centennial Foyer
3rd Floor**

Opening Reception

**7:00 pm – 9:00 pm
Centennial Ballroom
A – E, 3rd Floor**

Toxicology History Society

Moderator: Bryan Judge, MD, FAAEM, FACMT

Richard Mead: One for the Ages

Steven A. Seifert, MD, FAACT, FACMT Professor, University of New Mexico School of Medicine Medical Director, New Mexico Poison Center Albuquerque, NM

Toxic Contraception: A Brief History

Gwenn Christianson, RN, MSN, CSPI Senior Partner, Team Leader Indiana Poison Center Indianapolis, IN

Carl R. Baum, MD, FAAP, FACMT Associate Professor of
Pediatrics Yale University School of Medicine Director
Center for Children's Environmental Toxicology Attending
Physician Yale-New Haven Children's Hospital New Haven,
CT

Saturday, October 9, 2010, continued

Conference Schedule

“Moxie - Nerve Food to Soft Drink.”

Barry H. Rumack, M.D. Professor of Pediatrics,
University of Colorado School of Medicine
Director, Emeritus, Rocky Mountain Poison and Drug
Center

At the end of this session, the participant should be able to:

1. Discuss and place into context the contributions of Richard Mead to medical toxicology
2. Describe the state of medical and toxicologic knowledge in the 17th and 18th centuries
3. List 3 main types of historic contraception.
4. Describe the toxicity of 2 types of historic oral contraception.
5. Discuss the geological basis for volcanic eruptions.
6. Describe the range of toxicological effects of volcanic eruptions.

7:00 am – 5:00 pm
Centennial Foyer
3rd Floor

Speaker Ready Room

7:00 am – 5:00 pm
Centennial Foyer
3rd Floor

Registration/Information

7:00 am – 8:30am
Centennial Foyer
3rd Floor

Continental Breakfast

7:00 am – 8:30 am
Agate A
3rd Floor

AACT/AAPCC Partnership Meeting

7:00 am – 8:00 am
Mineral Hall A
3rd Floor

AACT Occ/Env SIG Business Meeting

7:00 am – 8:00 am
Agate B
3rd Floor

AACT Radiation SIG Business Meeting

7:00 am – 8:00am
Mineral Hall D
3rd Floor

AAPCC Surveillance Team

7:00 am – 8:00 am
Mineral Hall E
3rd Floor

Midwest Regional Toxicology Interest Group

7:00 am – 8:00 am
Agate C
3rd Floor

ACMT Website Committee Meeting

7:00 am – 8:00 am
Granite A
3rd Floor

ACMT Research Committee Meeting

7:00 am – 8: 00 am
Mineral Hall G
3rd Floor

AACT Envenomation SIG Business Meeting

8:00 am – 4:00 pm
Mineral Hall BC
3rd Floor

PEC Education Track

**8:00 am – 10:00 am
Centennial Ballroom
A-E, 3rd Floor**

ACMT Scientific Symposium: *The Toxicology of Endocrine Disruption*

**Moderators: Michael Kosnett, MD, MPH, FACMT
Liza Halcomb, MD**

Maternal Pb Exposure and its Long-term Consequences for the HPA Axis: A Biological Unifying Mechanism for Pb-Associated Diseases and Disorders

Deborah A. Cory-Slechta, Ph.D. Professor of Environmental Medicine and Pediatrics University of Rochester School of Medicine and Dentistry Rochester, NY

The Developmental Origins of Disease: Role of Endocrine Disrupting Chemicals and Epigenetic Mechanisms

Jerrold J. Heindel, P.hD. Scientific Program Administrator Division of Extramural Research and Testing National Institute of Environmental Health Sciences, NIH

At the end of this session, the participant should be able to:

1. Describe the impact of maternal and continuous exposure to lead on human diseases and disorders via its impact on the hypothalamic-pituitary-adrenal axis.
2. Discuss the synergistic effects of combined lead exposure and stress.
3. Review the importance of studying lead effects in conjunction with other co-occurring risk factors with which it shares common biological substrates and/or common adverse effects.
4. Describe the extent of human exposure to phthalates and bisphenol A and to identify common exposure sources
5. Summarize the data on human health effects of phthalates and bisphenol A

**9:00 am – 5:00 pm
Mineral Hall Foyer
3rd Floor**

Poison Control Center Displays

**9:00 am – 5:00 pm
Granite C
3rd Floor**

Toxicall Training

**9:00 am – 4:00 pm
Centennial Ballroom
F-H, 3rd Floor**

**Exhibits/Poster Session II
Abstracts: # 83-152**

**10:00 am – 5:00 pm
Mineral Hall F
3rd Floor**

**Simulation Center for Clinical Toxicology Training
*Hosted By: AACT Acute & Intensive Care SIG***

10:00 am – 11:00 am
Centennial Ballroom
F-H, 3rd Floor

Authors with Posters/Refreshment Break

11:00 am – 12:00 pm
Centennial Ballroom
ABC, 3rd Floor

Platform Session III: Occupational/Environmental Toxicology

Abstracts: # 79-82

Moderators: John A Curtis, MD, FAACT, FAAEM
Michael Kosnett, MD. MPH, FACMT

- 79. Single Verses Multiple Hyperbaric Sessions for Carbon Monoxide Poisoning: Is More Better? Miller AD, Carstairs SD, Minns AB, Duchnick J, Castillo EM, Clark RF,1 Tomaszewski CA.**
- 80. Association of Caffeine Consumption and Smoking Status with Serum Concentrations of Polychlorinated Biphenyls (PCBs) in the General US Population Jain RB, Thomas JD, Wang RY.**
- 81. Efficacy of Cytoflavine in Acute CO Poisoning Zobnine Y, Petrova A, Afanasiev V.**
- 82. Urinary Cadmium in Smoking and Non-smoking US Adults, 1999–2006 Mortensen ME, Wong L-Y, Osterloh JD.**

At the end of this session, the participant should be able to:

1. Discuss the effects of single versus multiple HBO sessions for carbon monoxide poisoning.
2. Describe the association of smoking status and caffeine consumption on serum PCB concentrations.
3. Review the effects of cytoflavine on acute CO poisoning outcomes.
4. Discuss the role of tobacco smoke as a source of cadmium exposure.

11:00 am – 12:00 pm
Centennial Ballroom
D, 3rd Floor

AACT Envenomations SIG: Update on Coral Snake Antivenom

Moderator: Steven Seifert, MD, FACMT, FAACT

The U.S. Coral Snake Antivenom Situation

Steven A. Seifert, MD, FAACT, FACMT Professor,
University of New Mexico School of Medicine Medical
Director, New Mexico Poison Center Albuquerque,
NM

The Antivenom Index

Keith Boesen PharmD, CSPI Managing Director of
the Arizona Poison and Drug Information Center
University of Arizona College of Pharmacy Tucson,
AZ

Keeping it legal: Steps you need to take when storing and using non-approved antivenoms.

Eric Lavonas, MD, FACEP, FACMT, FAACT
Associate Director Rocky Mountain Poison and Drug
Center - Denver Health Denver, CO

At the end of this session, the participant should be able to:

1. Discuss the issues of dwindling antivenom supplies
2. Describe alternative ways to manage envenomations
3. Review the current state of the FDA-approved coral snake antivenom
4. Discuss how to access and use the Antivenom Index
5. Describe how to locate appropriate antivenoms and other assistance resources
6. Review the legal issues of using non-FDA-approved antivenoms
7. Describe the reporting requirements when using non-FDA-approved antivenoms
8. Describe the steps in obtaining and maintaining and emergency use IND.
9. Review the steps required to legally use antivenom borrowed from a zoo.

11:00 am – 12:30 pm
Mineral Hall A
3rd Floor

ACMT Fellows-in-Training Roundtable:
Moderator: Jeffrey Brent, MD, PhD, FACMT

Jerrold B. Leikin M.D. FACP, FACEP, FACOEM, FAACT, FACMT Professor of Medicine Rush Medical College Chicago, Ill. Director of Medical Toxicology NorthShore University HealthSystem - OMEGA Glenbrook Hospital, Glenview, Ill.

Michael G. Holland, MD, FAACT, FACMT, FACOEM, FACEP Clinical Assoc. Professor, Dept of Emergency Medicine; SUNY Upstate Medical University Medical Toxicologist, Upstate NY Poison Center Syracuse, NY Attending Physician, Glens Falls Hospital Center for Occupational Health; Glens Falls, NY

At the end of this session, the participant should be able to:

1. Discuss ways to enhance the outpatient practice of medical toxicology
2. List the challenges associated with the outpatient practice of medical toxicology
3. Describe the various activities where a Medical Toxicologist can be consulted for their unique expertise and skill sets.
4. Review the specific areas of Medical Toxicology training on which they should concentrate during their training so they can acquire these special skills.

11:00 am – 1:00 pm
Centennial Ballroom
E, 3rd Floor

SACTRC Tropical Toxicology Symposium:
Moderator: Andrew Dawson, MD

Snake bites in Sri Lanka

Geoff Isbister, FACEM MD Associate Professor in
Clinical Toxicology University of Newcastle
Newcastle, NSW, Australia Clinical Toxicology and
Emergency Physician Calvary Mater Newcastle
Newcastle, NSW, Australia

RCTs of Educational Interventions in Primary Hospitals

Dr Bishan Rajapakse MBChB (Otago, New Zealand)
PhD candidate, Australia National University
Canberra, Australia Emergency Medicine Registrar
Prince of Wales Hospital Sydney, Australia

Andrew Dawson Program Director South Asian
Clinical Toxicology Research Collaboration, University
of Peradeniya, Sri Lanka Director NSW Poisons
Information Service Children's Hospital Westmead,
Sydney, Australia

Paraquat self poisoning: A rational approach to treatment

Indika Gawarammana, MD,MRCP Senior Lecturer in
Medicine and Director Clinical Research at SACTRC
Faculty of Medicine, University of Peradeniya
Sri Lanka

At the end of this session, the participant should be able to:

1. Discuss venom induced consumption coagulopathy
2. Describe the use of factor replacement in snake bite coagulopathy and Russells viper bite
3. Describe the limitations of different models of primary hospital education
4. Discuss the strengths of different models of primary hospital education
5. Review the mechanism of paraquat toxicity

11:00 am – 2:00 pm
Agate C
3rd Floor

ACMT JMT Editorial Meeting

11:00 am – 1:00 pm
Agate A
3rd Floor

CAPCC Annual Meeting

12:00 pm – 1:30 pm

Lunch on Own

12:00 pm – 1:30 pm
Granite AB
3rd Floor

Acetadote Clinical Trial Luncheon (by invite only)
Sponsored by Cumberland Pharmaceuticals

12:00 pm – 1:00 pm
Agate B
3rd Floor

AAPCC Research Award Committee

12:00 pm – 1:30 pm
Mineral Hall D
3rd Floor

AACT SIG Chairs Appreciation Luncheon

12:00 pm – 1:30 pm
Mineral Hall E
3rd Floor

AAPCC Committee Chair Luncheon (By Invite Only)

12:00 pm – 1:00 pm
Mineral Hall G
3rd Floor

AAPCC Toxicall Users Group

1:30 pm – 3:30 pm
Centennial Ballroom
DE, 3rd Floor

**AACT Radiation & Occupational/Environmental
SIG Joint Symposium:**

**Moderators: Ziad Kazzi, MD, FAAEM
John Curtis, MD, FAAEM**

***A review of the radiation risk paradigm, how it
was used to establish occupational and public
dose limits***

John Cardarelli II, PhD, CHP, CIH, PE CAPT US
Public Health Service Health Physicist Detailed to:
Environmental Protection Agency National
Decontamination Team Erlanger, KY

***Management of an occupational plutonium
accident***

Edward W. Cetaruk, MD, FACMT Assistant Clinical
Professor of Medicine University of Colorado Health
Sciences Center Division of Toxicology and Clinical
Pharmacology Toxicology Associates, L.L.C. Denver,
CO

At the end of this session, the participant should be able to:

1. Describe the radiation risk paradigm
2. Discuss how the radiation risk paradigm was used to establish occupational and public dose limits
3. Discuss the medical issues involved in the management of plutonium exposed workers
4. Describe the role of the medical toxicologist as a consultant with government radiation emergency organization

1:00 pm – 2:00 pm
Agate B
3rd Floor

ACMT ATSDR Committee Meeting

1:30 pm – 3:30 pm
Centennial Ballroom
ABC, 3rd Floor

AACT Acute & Intensive Care Symposium:
Dilemmas & Controversies: Don't Let These Toxicants Burn You

Moderators: Anthony Scalzo, MD, FAACT, FACMT
Sean Bryant, MD, FACEP

Presenters:

Thallium large ingestion with documented levels that survived: If it's Bad for Rats, it Cannot be Good for You!

Rizwan Riyaz, M.D. Medical Toxicology Fellow
Georgia Poison Center/CDC/Emory University Clinical
Instructor of Emergency Medicine Atlanta, GA

HF large ingestion with documented levels that survived: HF= Hardly Fatal? Severe Hydrofluoric Acid Ingestion and Living to Tell About It.

Patrick Whiteley, MD, Medical Toxicology Fellow,
Toxikon Consortium, Stroger-Cook County Hospital
Section of Toxicology, Chicago, IL

Boric acid critical case with documented levels that survived with a forensic twist: Prison Avoidance Cocktail Complication Results in Palliative Care Orders from Abused Wife

Heather Borek, MD, Medical Toxicology Fellow,
Division of Medical Toxicology, University of Virginia,
Charlottesville, VA

Panelists:

Frank G. Walter, MD, FACEP, FACMT, FAACT
Assoc. Professor of Emergency Medicine University
of Arizona College of Medicine Director of Clinical
Toxicology University Medical Center Tucson, AZ

G. Randall Bond, MD, FAAP, FACCT, FACMT,
Medical Director, Cincinnati Drug and Poison
Information Center, Professor of Clinical Pediatrics
and Emergency Medicine, University of Cincinnati

Robert S. Hoffman, MD, FAACT, FACMT,
Director, NYC Poison Center Associate Professor of
Emergency Medicine New York University School of
Medicine

Donna Seger, MD, FAACT, FACEP, ABMT, Associate
Prof of Medicine and EM MED Vanderbilt University
Medical Center Medical Director TN Poison Center

At the end of this session, the participant should be able to:

1. Describe the clinical manifestation and pathophysiology of Thallium toxicity.
2. Discuss the role of Prussian blue, multi dose activated charcoal and hemodialysis in the management of Thallium ingestion.
3. Discuss the pathophysiology of HF poisoning and how dermal exposures may differ from oral ingestions
4. Define the appropriate approach to HF ingestions (ie; role of decontamination, calcium and/or magnesium supplementation)
5. Discuss data regarding the role of enhanced elimination (ie; hemodialysis or hemoperfusion) in treating significant boric acid ingestion
6. Discuss the issues playing a part in ethical dilemmas surrounding overdose patients (ie. DNR, DNI, removal of care)

2: 00 – 4:00 pm
Mineral Hall G
3rd Floor

ACMT ToxIC Group Meeting

3:00 pm – 4:00 pm
Agate C
3rd Floor

ACMT P&T Committee Meeting

3:30 pm – 4:00 pm Refreshment Break
Centennial Ballroom
F-G 3rd Floor

3:00 pm – 5:00 pm
Mineral Hall D
3rd Floor

AAPCC NPDS Open Forum

4:00 pm – 6:00 pm
Centennial Ballroom
ABC, 3rd Floor

AACT Local Area Interest Symposium: Mountain and Plains Occupational and Environmental Toxicology Symposium

**Moderators: Michael Kosnett, MD, MPH
Karen Mulloy, DO**

The Goiana Radiation Accident: A First-Person Account

Luiz Bertelli, PhD Los Alamos National Laboratory
Los Alamos, NM

Epigenetics and Environmental Lung Disease

David A. Schwartz, MD Professor of Medicine,
Pediatrics, and Immunology Director, Center for
Genes, Environment, and Health Provost National
Jewish Health Denver, CO

At the end of this session, the participant should be able to:

1. Review the complexities of public health response to a widespread accidental release of Cesium 137
2. Recognize the evolution of acute radiation illness following environmental radionuclide release
3. Review basic mechanisms in epigenetics
4. Discuss the importance of both gene and environmental causes of lung disease

4:00 pm – 6:00 pm
Centennial Ballroom
D, 3rd Floor

AAPCC SPI I Symposium: Cardiovascular Toxicology

Moderators: Donna Smyth, BScN, CSPI
Lynn M. Ballentyne, BSN, CSPI

Interval Intrigue: An appreciation of the Toxic EKG

Sean M. Bryant, MD, FACMT Assistant Professor
Department of Emergency Medicine Cook County-
Stroger Hospital Department of Emergency Medicine
Assistant Fellowship Director Toxikon Consortium
Associate Medical Director Illinois Poison Center
Chicago, IL

Picking Your Way Through the Perfusion Salad of Cardiovascular Toxin Antidotes

Kirk L. Cumpston, DO, FACEP Assistant Professor of
Emergency Medicine Virginia Commonwealth
University Division of Clinical Toxicology Department
of Emergency Medicine Medical College of Virginia
Hospital Richmond, VA

At the end of this session, the participant should be able to:

1. Discuss the EKG tracing with emphasis in QTc intervals
2. Review toxicological etiologies for abnormal intervals (e.g. methadone) and associated implications
3. Discuss the mechanisms of action of cardiovascular toxin antidotes
4. Describe the indications, contraindications, adverse effects and dosing of antidotes for cardiovascular toxins.

4:00 pm – 6:00 pm
Centennial Ballroom
E, 3rd Floor

AACT Trainees Research Platform Session:

Moderators: Kennon Heard, MD, FACEP, FACMT
Daniel Rusyniak, MD

Sean Patrick Nordt, M.D., Pharm.D. Assistant
Professor of Clinical Emergency Medicine
Department of Emergency Medicine Keck School of
Medicine University of Southern California Attending
Physician LAC+USC Medical Center Los Angeles, CA

David Vearrier, MD Fellow, Medical Toxicology Drexel University College of Medicine Philadelphia, PA

J.J. Rasimas, M.D., Ph.D. Medical Toxicology Fellow PinnacleHealth Toxicology Center Harrisburg, PA, USA Associate Professor of Psychiatry Penn State College of Medicine Hershey, PA

Michael Bodmer, MD, MSc Toxicology Fellow Rocky Mountain Poison and Drug Center Denver Health, CO

Shan Yin, MD, MPH, Associate Professor of Pediatrics University of Cincinnati School of Medicine Cincinnati, OH Attending Physician Cincinnati Children's Hospital Cincinnati, OH

4:00 pm – 6:00 pm
Agate C
3rd Floor

ACMT Education Committee

**4:00 pm – 5:00 pm
Centennial Ballroom
F-H, 3rd Floor**

Poster Session II Tear - Down

4:15 pm – 5:45 pm
Mineral Hall E
3rd Floor

PEC Swap and Share (part 1)

**5:00 pm – 6:00 pm
Centennial Ballroom
F-H, 3rd Floor**

**Poster Session III Set – Up
Abstracts: # 161-230**

5:30 pm – 10:00 pm
Mineral Hall A
3rd Floor

AAPCC Board Meeting Part I

5:45 pm – 7:00 pm
Mineral Hall BE
3rd Floor

PEC Joint Steering Committee Meeting

6:00 pm – 7:00 pm
Mineral G
3rd Floor

ACMT Spring Conference Planning

6:30 pm – 8:30 pm
Peeks Lounge
26th Floor

AACT Reception/Induction of New Fellows & Career Recognition Award

7:00 am – 5:00 pm
Centennial Foyer
3rd Floor

Speaker Ready

7:00 am – 8:30 am
Centennial Foyer
3rd Floor

Continental Breakfast

7:00 am – 5:00 pm
Centennial Foyer
3rd Floor

Registration/Information

6:45 am – 8:00 am
Mineral Hall A
3rd Floor

AACT Past Presidents Breakfast

7:00 am – 8:00 am
Granite A
3rd Floor

ACMT Fellowship Directors Meeting

7:00 am – 8:00 am
Marble
4th Floor

ACMT Med Tox Institute Meeting

7:00 am – 8:00 am
Mineral Hall D
3rd Floor

AACT Fellowship Committee

7:00 am – 8:00 am
Mineral Hall E
3rd Floor

AACT Weapons of Mass Destruction SIG Business Meeting

8:00 am – 6:00 pm
Mineral BC
3rd Floor

PEC Education Track

8:00 am – 10:00 am
Centennial Ballroom
A-E, 3rd Floor

AAPCC Symposium: Breaking the Cycle of Pediatric Exposure
Moderators: Robert Geller, MD
Mitch Ross, MD

Root Causes and Burden of Accidental Unsupervised Ingestions

G. Randall Bond, MD, FAAP, FACCT, FACMT,
Medical Director, Cincinnati Drug and Poison
Information Center, Professor of Clinical Pediatrics
and Emergency Medicine, University of Cincinnati

Child Resistant Packaging (CRP): Innovations, Regulations and Testing

Edwin Kuffner, MD Vice President, Medical Affairs
and Clinical Research McNeil Consumer Healthcare

Child Resistant Packaging

Mark A. Plezia Associate Director, R&D Packaging Technologies McNeil Consumer Healthcare 7050 Camp Hill Road Fort Washington, PA

An Injury Prevention Approach to Preventing Unsupervised Ingestions

Daniel S. Budnitz, MD, MPH, CDR, USPHS Medication Safety Program, Division of Healthcare Quality Promotion, CDC Atlanta, GA

Measuring Success with Surveillance Methodology

Richard Dart, MD, PhD Director, Denver Health Rocky Mountain Poison and Drug Center Denver, CO US Professor, University of Colorado School of Medicine Aurora, CO

Jody L. Green, PhD Associate Research Director Denver Health Rocky Mountain Poison & Drug Center Denver, CO USA Assistant Professor, School of Nursing (Research) Vanderbilt University Medical Center Nashville, TN

At the end of this session, the participant should be able to:

1. Discuss product categories associated with pediatric exposures and outcomes
2. Describe root cause and relative contribution of pediatric exposures
3. Describe how the distribution of pharmaceuticals causing ED visits alone differs from those requiring ICU care.
4. Discuss the impact that packaging changes can have on reducing accidental unsupervised ingestions
5. Describe the importance of developing monitoring systems with the sensitivity to detect changes in AE reporting following packaging changes
6. Discuss the history of the Poison Prevention Packaging Act of 1970
7. Review the child and senior test protocol
8. Compare the advantages of passive vs active safety interventions
9. List 3 classic injury prevention strategies (the 3 "E's" of injury prevention).
10. Discuss key characteristics for pediatric drug safety surveillance
11. Describe limitations of current pediatric surveillance strategies

8:00 am – 9:45 am
Mineral Hall G
3rd Floor

PEC Swap and Share II

9:00 am – 4:00 pm
Centennial Ballroom
F-G 3rd Floor

Exhibits/Poster Session III
Abstracts # 161-230

9:00 am – 5:00 pm
Mineral Hall BC
3rd Floor

Public Control Center Displays

9:00 am – 5:00 pm
Granite C
3rd Floor

Toxicall Training

10:00 am – 11:00 am
Centennial Foyer
3rd Floor

Authors with Posters/Refreshment Break

10:00 am – 5:00 pm
Mineral Hall F
3rd Floor

Simulation Center for Clinical Toxicology Training
Hosted By: AACT Acute & Intensive Care SIG

11:00 am – 12:00 pm
Centennial Ballroom
A-E 3rd Floor

AACT Career Achievement Lectureship
Friends and Foes in the Plant World
Moderator: Michael Greenberg, MD, MPH, FAACT, FACMT

Edward P Krenzelok, PharmD, FAACT, DABAT
Director Pittsburgh Poison Center University of
Pittsburgh Medical Center Professor of Pharmacy and
Pediatrics Gordon J Vanscoy Chair in Pharmacy
University of Pittsburgh Pittsburgh, PA

At the end of this session, the participant should be able to:

1. List selected plants that are associated with morbidity.
2. Discuss which plant ingestions may result in a fatal outcome.

12:00 pm – 1:30 pm

Lunch Break

12:00 pm – 1:30 pm
Mineral Hall A
3rd Floor

ACMT Fellows-in-Training Luncheon:
Moderators: Christina Hantsch Bardsley, MD, FACMT
Leslie Dye, MD, FACMT
J. Dave Barry, MD, FAAEM, FAACEP

The Medical Toxicologist on the Addiction Medicine/Detox Service

Heath A. Jolliff, DO, FACEP, FAAEM Assistant
Professor of Pediatrics The Ohio State University
Medical Center/Nationwide Children's Hospital
Columbus, Ohio, USA Associate Medical Director
Central Ohio Poison Center Columbus, OH

At the end of this session, the participant should be able to:

1. Describe current epidemiology of substance abuse
2. Review the role of the medical toxicologist in the management of the patient addicted to a substance of abuse.

12:00 pm – 1:00 pm
Granite A
3rd Floor

AACT Pediatric SIG Business Meeting

12:00 pm – 1:30 pm
Mineral Hall G
3rd Floor

Clinical Toxicology Editorial Board Meeting

12:00 pm – 1:30 pm
Marble
4th Floor

AAPCC SPI Steering Committee

12:00 pm – 12:45 pm
Mineral Hall D
3rd Floor

ABAT Business Meeting

12:00 pm – 1:30 pm
Granite B
3rd Floor

AAPCC Finance Committee

12:45 pm – 1:30 pm
Mineral Hall E
3rd Floor

ABAT Reception

1:30 pm – 3:30 pm
Centennial Ballroom
E, 3rd Floor

EAPCCT Symposium: Unusual Toxic Outbreaks
Moderator: Michael Greenberg, MD, MPH,
FAACT, FACMT

How to prepare for unusual toxic outbreaks

Irma de Vries, MD Dutch National Poisons Information Centre University Medical Centre Utrecht Utrecht, the Netherlands

Challenges to medical systems by terrorism with chemical warfare agents

Horst Thiermann, MD Pharmacologist and Toxicologist, Clinical Pharmacologist Bundeswehr Institute of Pharmacology and Toxicology Munich Bavaria Germany

Outbreak of methanol poisonings with a special focus on the Estonian experience

Raido Paasma, MD Chief Doctor of Anaesthesia and ICU Pärnu Hospital Estonia Estonian Poisoning Information Centre

At the end of this session, the participant should be able to:

1. Describe a relevant and necessary multidisciplinary approach for assuring optimal health care in disasters
2. Discuss risk management and risk communication in disasters
3. Discern the different challenges to medical services after a terrorist attack with nerve or blistering agents
4. Undertake appropriate measures for protection and prevention of exposure towards chemical warfare agents and have the competence to treat patients exposed towards nerve agents or sulfur mustard appropriately
5. Describe the similarities and differences between single cases and larger outbreaks, in particular relating to delay of treatment
6. Discuss alternative diagnostic tools as they may apply to locations with differing medical resources

1:30 pm –3:30 pm
Centennial Ballroom
D, 3rd Floor

AAPCC SPI Roundtable:

Moderators: Cindy Deutsch

Alvin Bronstein, MD

Margaret Thompson, MD

Cynthia Lewis- Younger, MD

Dawn Sollee, PharmD, DABT

S Not a Mystery: A Story of Organophosphate Poisoning

Vickie Farnsworth, RPh, CSPI Rocky Mountain
Poison Center Denver, CO

Pediatric Opiate Poisoning

Kimberley Sheppard RN BScN CSPI Clinical Leader
IWK Regional Poison Centre Halifax, Nova Scotia,
Canada

Chicken from Church

Ann P. Slattery RN, RPh, DrPH, CSPI, DABAT
Regional Poison Control Center, Children's Hospital
Birmingham, AL

There's Something in the Air...

Scott Schaeffer, RPh, DABAT University of Oklahoma
College of Pharmacy Oklahoma City, OK Assistant
Managing Director Oklahoma Poison Control Center

At the end of this session, the participant should be able to:

1. Discuss the presentation and management of significant organophosphate toxicity.
2. Review precautions needed to prevent secondary contamination of caregivers.
3. Discuss the management of an unresponsive opiate poisoning.
4. Describe the role of naloxone in the management of opiate poisoning.
5. Recognize causative agents of nausea, vomiting and altered mental status.

6. Review appropriate treatment recommendations (and labs) for patients presenting with nausea, vomiting, and altered mental status.
7. Discuss potential in-home environmental hazards
8. Given a case scenario, identify possible toxicologic causes of developmental delay

1:30 pm – 3:30 pm
Centennial Ballroom
ABC, 3rd Floor

AACT Forensic Special Interest Group:
Poster Session
Moderators: Cynthia Morris-Kukoski, PharmD,
DABAT
Robert Palmer, PhD, DABAT
David Gummin, MD

Ingestions of prescription cough and cold medications in children under 2 years reported to poison centers. Suzanne Doyon,

The impact of federal pseudoephedrine regulations on methamphetamine exposures. Tara Pummer, PharmD

Illicit Drug Exposures in Children. Shan Yin, MD

Toxic Deaths by DNR? Sean Bryant, MD

Neurologic recovery following 7 days of coma from baclofen overdose. Laura Tormoehlen, MD

Baclofen Overdose Mimicking Brain Death. Michael Hodgman, MD

DNR orders and the Suicidal Patient: An Ethical Dilemma. Jeanna Marraffa,

At the end of this session, the participant should be able to:

1. Review ingestions of prescription cough and cold ingestions in children under 2 years of age.
2. Describe the impact of federal pseudoephedrine regulations on methamphetamine exposure.
3. Discuss illicit drug exposures in children.
4. Discuss toxic death by DNR
5. Describe a case of neurologic recovery following prolonged coma from baclofen overdose.
6. Describe a case of baclofen overdose mimicking brain death
7. Review the ethics of DNR and the suicidal patient

1:30 pm – 2:30 pm
Granite B
3rd Floor

ACMT Government Meeting

1:30 pm – 2:30 pm
Mineral Hall D
3rd Floor

ACMT MTFITA Meeting

1:30 pm – 2:30 pm
Granite A
3rd Floor

ACMT Practice Committee Meeting

2:30 pm – 3:30 pm
Granite B
3rd Floor

ACMT Military SIG Meeting

2:30 pm – 3:30 pm
Mineral Hall G
3rd Floor

ACMT Industry SIG Meeting

3:00 pm – 4:00 pm
Mineral Hall A
3rd Floor

PEC Round Table Discussion

**3:30 pm – 4:00 pm
Centennial Ballroom
F-G, 3rd Floor**

Refreshment Break

**4:00 pm – 5:00 pm
Centennial Ballroom
F-G, 3rd Floor**

Poster Session III Removed

**4:00pm – 5:00 pm
Centennial Ballroom
D, 3rd Floor**

**AACT Year In Toxicology: Health Consequences
of the Gulf Oil Spill**

**Moderators: Jeffrey Brent, MD, PhD, FACMT
Diane Callelo, MD**

Michael G. Holland, MD, FAACT, FACMT, FACOEM, FACEP Clinical Assoc. Professor, Dept of Emergency Medicine, SUNY Upstate Medical University Medical Toxicologist, Upstate NY Poison Center; Syracuse, NY Attending Physician, Occupational Medicine; Glens Falls Hospital Center for Occupational Health; Glens Falls, NY

Glenn C. Millner, Ph.D. Principal Toxicologist, Center for Toxicology and Environmental Health, L.L.C. and University of Arkansas for Medical Science North Little Rock, AR

At the end of this session, the participant should be able to:

1. Review first-hand overview of public health and worker exposure monitoring conducted during the entire spill operations
2. Describe the coordinated response of many agencies and private companies
3. Discuss an overview of health concerns

4:00 pm – 5:00 pm
Centennial Ballroom
E, 3rd Floor

Platform Session IV

Abstracts: # 153-156

**Moderator: Donna Seger, MD, FAACT, FACEP,
ABMT
Robert Hendrickson**

153. Which *N*-acetylcysteine Protocol is Associated with Better

**Outcomes? Sivilotti MLA, Langmann C,
Yarema MC,
Juurlink DN, Johnson DW, Spyker DA,
Thompson M, Green TJ,
Dart RC, Rumack BH.**

154. Acetaminophen-Cysteine (APAP-CYS) Protein Adducts Can

**Be Detected After Repeated
Supratherapeutic Ingestion Of
Acetaminophen (APAP) Even In The Absence
of
E. Hepatotoxicity O'Malley G, Mizrahi F, Kuffner**

155. Revisiting Flumazenil Use Among Poisoned Patients

**A, Purificacion Kreshak A, Cantrell FL, Vo H, Vazquez
J, Tran D, Clark R, Tomaszewski C.**

156. Incomplete Recovery of Cognitive Functions in Patients

Overdose Discharged Following Sedative Drug

**Dassanayake T, Michie PT, Jones A, Carter G,
Whyte I, Mallard T.**

At the end of this session, the participant should be able to:

1. Review differences in peak INR when using different NAC protocols.
2. Discuss implications of the detection of APAP-CYS protein adducts after repeated supratherapeutic APAP ingestion.
3. Review the utility of flumazenil in the poisoned patient.
4. Describe residual cognitive dysfunction in patients discharged after sedative

4:00 pm – 6:00pm
Centennial Ballroom
ABC, 3rd Floor

AACT Herbal SIG Poster Session:
Moderator: Jou-Fang Deng, MD
Miguel Fernandez, MD, FAAEM,
FACEP, FACMT

Prolonged Ketoacidosis with Normoglycemia in a 2 year old following Ingestion of Meizitang Herbal Weight Loss Supplement Containing Illicit Sibutramine, Kapil Sharma, Dallas, TX

Monday, October 11, 2010, continued Conference Schedule

Infant Botulism and Chamomile Tea: a Case Series, Diane Calello, Martinsville, NJ

Hypertensive Crisis from a MAOI/Supplement Interaction Leading to Myocardial Infarction and Acute Heart Failure, Aaron Schneir, San Diego, CA

Non-Pharmaceutical Cardioactive Steroid Poisoning: Bufotoxins are Associated with More Severe Toxicity, Chen-Chang Yang, Taipei, Taiwan

Milkweed Induced Cardiac Glycoside Poisoning, Laura Bechtel, Charlottesville, VA

Herbal Body Building Supplement- Get Big or Die Trying, Keenan Bora, Dearborn Heights, MI

At the end of this session, the participant should be able to:

1. Describe a case of prolonged ketoacidosis with normoglycemia after pediatric herbal weight loss supplement ingestion.
2. Discuss a case series of infant botulism and chamomile tea.
3. Describe a case of hypertensive crisis from MAOI and supplement interaction. Review the toxicity of non-pharmaceutical cardioactive steroid poisoning.
4. Discuss milkweed induced cardiac glycoside poisoning.
5. Describe toxic effects of herbal body building supplementation.

4:00 pm – 5:00 pm
Mineral Hall G
3rd Floor

ACMT International Committee Meeting

4:00 pm -5:00 pm
Mineral Hall D
3rd Floor

ACMT Liaison Committee Meeting

4:00 pm – 5:00 pm
Marble
4th Floor

ACMT Membership Committee

4:00 pm – 5:00 pm
Granite A

AAPCC Veterinary Committee Meeting

5:00 pm – 6:00 pm
Centennial Ballroom
D, 3rd Floor

ACMT Ellenhorn Symposium:
Moderator: Suzanne White, MD, FACMT

Reflections on a Career in Medical Toxicology
Kent R. Olson, MD Medical Director, San Francisco
Division California Poison Control System Clinical
Professor of Medicine & Pharmacy University of
California, San Francisco, San Francisco, CA

Monday, October 11, 2010, continued **Conference Schedule**

At the end of this session, the participant should be able to:

1. Review techniques for teaching medical toxicology to students, residents and clinicians.

5:00 pm – 6:00 pm
Mineral Hall D
3rd Floor

AAPCC Florida/GA Users Group

5:00 pm – 6:00 pm
Centennial Ballroom
E, 3rd Floor

Platform Session V
Abstracts: # 157-160
Moderators: Martin Caravati, MD, FACMT
Edward Krenzelok, PharmD, FAACT,
DABAT

157. Therapeutic Errors Detected During Safety
Surveillance of
and Cold Medications in
RC.

Over- The-Counter (OTC) Cough
Children Steitz AG, Green JL, Dart

158. Integrating Poison Center Operations to
Facilitate a
Statewide H1N1 Flu Hotline Schauben J,
Lewis-Younger C,
Weisman R Sollee D, Bernstein J, Kunisaki T.

159. Building Advocacy Support Through
Technology, Dance V,
Moran G.

160. My Baby Drank Bleach LOL:)
NF:(WCUTM??
Ryan ML, Arnold TC, Ryan CC.

1. Discuss therapeutic errors associated with pediatric cough/cold ingredient exposures.
2. Describe the role of a poison center in the operation of a dedicated, state-wide H1N1 hotline.
3. Review the role of technology to educate and advocate in a positive manner.
4. Describe the role of text messaging in poison center communications during periods of impaired telecommunications.

5:00 pm – 6:00 pm
Centennial Ballroom
F-H, 3rd Floor

Poster Session IV Set – Up
Abstracts # 235-304

6:00 pm – 7:30 pm
Centennial Ballroom
ABC 3rd Floor

AAPCC Town Hall Meeting

Monday, October 11, 2010, continued

Conference Schedule

7:30 pm – 9:30 pm
Centennial Ballroom
D-E, 3rd Floor

SPI Awards/Quiz Bowl
20-year CSPI, SPI and Educator and
Best Poster Awards Presentation
Moderator: Prashant Joshi, MD

Tuesday, October 12, 2010

Conference Schedule

7:00 am – 1:00 pm
Slate

Speaker Ready Room

7:00 am – 8:30 am
Centennial Ballroom
F-H, 3rd Floor

Continental Breakfast

7:00 am – 2:00 pm
Centennial Foyer
3rd, Floor

Registration/Information

7:00 am – 12:00 pm
Centennial Ballroom
F-H, 3rd Floor

Exhibits/Poster Session IV
Abstracts: # 235 - 304

8:00 am – 9:00 am
Centennial Ballroom
DE, 3rd Floor

Platform Session VI
Abstracts # 231-234

**Moderators: G.Randall Bond, MD, FAAP, FAACT,
FACMT
Robert S. Hoffman, MD, FAACT,
FACMT**

231. Postmortem Redistribution of delta-9-tetrahydrocannabinol

(THC), 11-hydroxy-THC (11-OH-THC), and 11-nor-9-carboxy-

THC (THCCOOH) Holland MG,
Schwope DM, Stoppacher R,

Gillen S, Huestis MA.

Results from

Hydroxyethoxyacetic Acid
Accumulation McMartin KE,
Besenhofer LM, McLaren MC, Bartels
M, Filary MJ,
Perala AW.

233. Partition Constant of a Drug May Help Predict
the Clinical

Efficacy of Lipid Rescue for
Toxicological Emergencies
Ruan W, French D, Wong A, Drasner
K, Wu A.

234. In Vitro Testing of Plasma Protein Binding of
Carbamazepine in Relation to Serum
Concentration

Fischer S, Mueller D, Rentsch K,
Ceschi A, Rauber-
Luethy C.

At the end of this session, the participant should be able to:

1. Describe post-mortem redistribution characteristics of THC and metabolites.
2. Review the etiology of acidosis occurring in diethylene glycol toxicity.
3. Discuss the use of the partition constant in predicting the efficacy of lipid rescue.
4. Describe the potential role of hemodialysis in massive carbamazepine overdose.

Tuesday, October 12, 2010, continued

Conference Schedule

**8:00 am – 10:00 am
Centennial Ballroom
ABC, 3rd Floor**

**AAPCC Veterinary Symposium: – “My Baby is
Poisoned!” Human and Vet Tox Conundrums
Moderators: Tina Wismer, DVM, DABVT, DABT**

Judy Alsop PharmD, DABAT California Poison
Control System Director, Sacramento Division
Sacramento, Ca; Health Sciences Clinical Professor
University of California San Francisco School of
Pharmacy San Francisco, CA

Ahna Brutlag, DVM Assistant Director of Veterinary
Services Pet Poison Helpline and SafetyCall
International Bloomington, MN

Sharon M. Gwaltney-Brant Adjunct Faculty College of

Clinical Pharmacy University of Georgia Augusta, GA

Robert G. Hendrickson, M.D. Associate Professor of
Emergency Medicine, Oregon Health and Science
University Associate Medical Director, Oregon Poison
Center, Program Director, Fellowship in Medical
Toxicology, OHSU

Robert S. Hoffman, MD, FAACT, FACMT Director,
NYC Poison Center Associate Professor of
Emergency Medicine New York University School of
Medicine

Karen E. Simone, PharmD, DABAT Assistant
Professor of Emergency Medicine, School of
Medicine, Tufts University Boston, MA, USA Assistant
Professor of Emergency Medicine, College of
Medicine, University of Vermont Burlington, VT, USA
Northern New England Poison Center Director Maine
Medical Center Portland, ME,

At the end of this session, the participant should be able to:

1. Review peer reviewed scientific journal articles relevant to clinical toxicology that have been published during the last academic year
2. Discuss the contributions of these articles to current clinical toxicology practice

Tuesday, October 12, 2010, continued

Conference Schedule

**11:00 am – 1:00 pm
Centennial Ballroom
ABC, 3rd Floor**

**AAPCC SPI II Symposium: *Poison Centers
Operations***

Moderator: Grant Lackey, PharmD, CSPI

D. Ruth Bona RN CSPI Nova Scotia Provincial
Antidote Kit Coordinator IWK Regional Poison Centre
Halifax, NS, Canada

Cindy M. Deutsch, RN, MSN, CNS, CSPI Clinical
Supervisor Rocky Mountain Poison and Drug Center
Denver, CO

Scott Schaeffer, RPh, DABAT University of Oklahoma
College of Pharmacy Oklahoma City, OK Assistant
Managing Director Oklahoma Poison Control Center

At the end of this session, the participant should be able to:

functions

2. Discuss how poison centers identify population-specific needs and address them
3. Describe how individual PCCs have optimized their management and operation strategies.
4. Describe the use of remote/teleworking poison specialists within the poison center environment
5. Describe the benefits and drawbacks for PCCs to manage animal exposures
6. Define the different reasons for using voice recording of poison center calls

12:00 pm – 1:00 pm
Centennial Ballroom
F-H, 3rd Floor

Poster Session III Posters Removed

12:00 pm – 1:00 pm
Mineral E
3rd Floor

PEC Steering Committee Meeting

1:30 pm – 5:00 pm
Mineral Hall A
3rd Floor

AAPCC Board Meeting (part 2)