

American College of Medical Toxicology

*In conjunction with the Medical Toxicology Foundation  
with support from the Agency for Toxic Substances and Disease Registry (ATSDR).*

# Use & Misuse of Metal Chelation Therapy

February 29, 2012

Conference & Live Webinar

Centers for Disease Control and Prevention  
Atlanta, GA

*Funding for this conference was made possible (in part) by the Centers for Disease Control and Prevention. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.*



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16045 N. Tatum Boulevard, Suite 200-111, Phoenix, AZ . T 623 533 6340 . [www.acmt.net](http://www.acmt.net)

# Use & Misuse of Metal Chelation Therapy

## Preliminary Agenda

7:45–8:00am	<b>Welcome and Orientation to Proceedings</b> Lewis S. Nelson, MD New York University, New York, NY	1:00–1:30pm	<b>The Scientific Basis for Chelation: Animal Studies and Lead Chelation</b> Donald Smith, PhD University of California, Santa Cruz Santa Cruz, CA
8:00–8:30am	<b>The Current Use of Chelation in American Healthcare: An Overview</b> Paul M. Wax, MD University of Texas Southwestern, Dallas, TX	1:30–2:00pm	<b>The Role of Chelation in the Treatment of Lead Poisoning</b> Walter J. Rogan, MD, MPH National Institute for Environmental Health Sciences Research Triangle Park, NC
8:30–9:00am	<b>Chelation Questions and a Public Health Department Response</b> Carl Herbrandson, PhD Minnesota Department of Health, St. Paul, MN	2:00–2:15pm	<b>The Role of Chelation During Pregnancy in the Lead Poisoned Patient</b> Mary Jean Brown, ScD Centers for Disease Control and Prevention, Atlanta, GA
9:00–9:30am	<b>Unapproved Chelation Products Available Over the Internet</b> Charles E. Lee, MD US Food & Drug Administration, Silver Spring, MD	2:15–2:45pm	<b>The Weight of the Evidence: The Role of Chelation in the Treatment of Arsenic and Mercury Poisoning</b> Michael J. Kosnett, MD, MPH University of Colorado, Denver, CO
9:30–9:50am	<b>Break</b>	2:45–3:00pm	<b>Break</b>
9:50–10:20am	<b>"Normal" vs. "Clinically Relevant Abnormal" Laboratory Test Results</b> Richard Wang, DO Division of Laboratory Sciences National Center for Environmental Health (NCEH), Atlanta, GA	3:00–3:30pm	<b>The Role of Chelation in the Treatment of Other Metal Poisonings</b> Silas W. Smith, MD New York University, New York, NY
10:20–10:40am	<b>Considerations in the Choice of Laboratory and Analytical Methods</b> Robert L. Jones, PhD Division of Laboratory Sciences, NCEH, Atlanta, GA	3:30–4:00pm	<b>The Use and Abuse of Chelation Therapy for Autism Spectrum Disorders</b> Jeffrey Brent, MD, PhD University of Colorado, Denver, CO
10:40–11:00am	<b>Biomonitoring, Biological Matrix Decisions, and Considerations for Analytical Testing Using Alternative Biologic Matrices</b> Kathleen Caldwell, PhD Division of Laboratory Sciences, NCEH, Atlanta, GA	4:00–4:30pm	<b>Panel Discussion: Practical Application of Evidence-Based Chelation Recommendations</b> Charles A. McKay, MD University of Connecticut, Hartford, CT
11:00–11:20am	<b>Sample Collection and Reporting of Metal Measurements</b> Kathleen Caldwell, PhD Division of Laboratory Sciences, NCEH, Atlanta, GA	4:30–5:00pm	<b>Open Comment Period</b>
11:20–11:50am	<b>History and Current Recommendations for Provoked Challenge Urine Testing</b> Anne-Michelle Ruha, MD Banner Good Samaritan Medical Center, Phoenix, AZ		
11:50am–1:00pm	<b>Lunch</b> – Provided by Emory University Medical Toxicology Section, Department of Emergency Medicine		

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# Use & Misuse of Metal Chelation Therapy

## Learning Objectives:

At the end of this course, the participant will be able to:

- Discuss the current use of chelation therapy in the United States.
- Describe the underlying mechanism for the effectiveness of chelation therapy.
- Identify critical aspects of sample collection and reporting of metal measurements.
- Describe the impact of timing and accessibility of a chemical compound in regards to the potential efficacy of chelation therapy.
- Discuss the challenges in crafting a public health message distinguishing “exposure” from “toxicity”.
- Describe the role of the FDA in preventing the over the counter sale and distribution of supplements or chelation drugs intended to treat metal intoxication.
- Discuss common laboratory issues that often confound measurements performed in alternative biological matrices.
- Identify critical aspects of a patient’s laboratory assessment when considering chelation therapy.
- Discuss the current use of chelation therapy in the treatment of the following metal poisonings: aluminum, arsenic, chromium, lead, mercury, and uranium.
- Describe the role of chelation during pregnancy in the lead poisoned patient.
- Discuss the use and abuse of chelation therapy for autism spectrum disorders.
- Summarize the available evidence for or against chelation therapy in a variety of clinical conditions.

## Who Should Attend?

Toxicologists, public health professionals, emergency medicine physicians, occupational and environmental physicians, family practitioners, pediatricians, internists, and nurses.

Registration Fees *	Discount	Regular
Discount available thru 2/15/12		
<a href="#">Register for Conference Here</a>	\$125	\$140
<a href="#">Register for Live Webinar Here</a>	\$125	\$140
<b>Continuing Education Credit</b> <i>Scroll down for details.</i>	Free	

**\*Web-on-Demand:** All registrants will have access to the online web-on-demand module that will be available approximately 30 days following the live conference and webinar broadcast.

**The American College of Medical Toxicology (ACMT)** is a professional nonprofit association of physicians with recognized expertise and board certification in medical toxicology. The College is dedicated to advancing the science and practice of medical toxicology and to ensuring that patients exposed to poisons and toxic substances receive optimal care by direct contact with qualified medical toxicologists.

ACMT has extensive experience in producing highly regarded educational programs. These include symposia at national medical meetings, regional conferences for public health and healthcare professionals, and review courses for the medical toxicology certification examination.

## Conference Venue

Centers for Disease Control and Prevention, Roybal Campus  
Global Communications Center B19, Auditorium A  
1600 Clifton Road Northeast, Atlanta, GA

*Please allow sufficient time for security check-in at the conference venue. US citizens are required to present government issued identification with photo. Non-US citizens should make inquiry prior to arrival to ensure that you have a form of identification acceptable to gain entry to the facility.*

## Suggested Accommodations

Emory Conference Center Hotel  
1615 Clifton Road Northeast, Atlanta, GA  
(404) 712-6000, [emoryconferencecenter.com](http://emoryconferencecenter.com)

*ACMT does not have a group reservation agreement with the Emory Conference Center Hotel. A rate of \$133 per night, plus local taxes, may be obtained using **Reservation ID 20006021715**. Please contact the hotel directly to confirm reservations. This special rate is subject to availability at the time of booking.*

## Course Directors

Charles A. McKay, MD, FACMT

Paul M. Wax, MD, FACMT

Lewis S. Nelson, MD, FACMT

Michael J. Kosnett, MD, MPH, FACMT

Richard Y. Wang, DO, FACMT



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# Use & Misuse of Metal Chelation Therapy

## Continuing Education

**Activity # EV1984**

**Use and Misuse of Metal Chelation Therapy, February 29, 2012**

**CME:** This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the Centers for Disease Control & Prevention and American college of Medical Toxicology (ACMT). The Centers for Disease Control and Prevention is accredited by the Accreditation Council for Continuing Medical Education (ACCME®) to provide continuing medical education for physicians.

The Centers for Disease Control and Prevention designates this live educational activity for a maximum of **7.0** AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Non-Physicians:** Non-physicians will receive a certificate of participation.

**CNE:** The Centers for Disease Control and Prevention is accredited as a provider of Continuing Nursing Education by the American Nurses Credentialing Center's Commission on Accreditation.

This activity provides **7.0** contact hours.

**IACET CEU:** The CDC has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. The CDC is authorized by IACET to offer **0.7** ANSI/IACET CEU's for this program.

**CECH:** Sponsored by the Centers for Disease Control and Prevention, a designated provider of continuing education contact hours (CECH) in health education by the National Commission for Health Education Credentialing, Inc. This program is designed for Certified Health Education Specialists (CHES) to receive up to **7.0** Category I CECH in health education. CDC provider number **GA0082**.

### WEB-BASED SYLLABUS:

Participants will receive information regarding access to the web-based syllabus no later than February 24, 2012. This information will be sent to the email address submitted during registration for this activity.

## DISCLOSURE:

In compliance with continuing education requirements, all presenters must disclose any financial or other associations with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters as well as any use of unlabeled product(s) or product(s) under investigational use.

CDC, our planners, and our presenters wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters.

Presentations will not include any discussion of the unlabeled use of a product or a product under investigational use with the exception of Dr. Brent's discussion on the Use and Abuse of Chelation Therapy for Autism Disorders; Dr. Kosnett's discussion of the Role of Chelation in the Treatment of Arsenic and Mercury Poisoning; Dr. Lee's discussion of unapproved chelation products; Dr. McKay's discussion of use by some practitioners of chelators for non-FDA approved indications; Dr. Rogan's discussion will mention that succimer was used in a clinical trial for blood leads below the label; Dr. Ruha's presentation will describe the unlabeled use of various chelators for challenge test in community at large; and Dr. S. Smith's presentation will review published literature on chelators in other metal poisonings.

Dr. Brent will be describing unlabeled practices that are used by some health practitioners relevant to the topic; Dr. Kosnett will mention the potential use of the drugs succimer and unithiol in treatment of As and Hg poisoning; Dr. Lee will discuss the use of unapproved chelation products; Dr. McKay will discuss the use by some practitioners of chelators for non-FDA approved indications and the data supporting or not supporting such use; Dr. Rogan will discuss the use of succimer in a clinical trial for blood leads below the label; Dr. Ruha will describe the unlabeled use of various chelators for challenge test in community at large; and Dr. S. Smith will review literature on chelators in other metal poisonings.

There was no commercial support for this activity.

## METHOD OF PARTICIPATION:

You may participate in the educational activity by viewing the program information above.

To evaluate this educational activity, receive a certificate/statement of credit, and to print-out an on-going transcript of all your TCEOnline CE activities for credits/contact hours, please go to: [www.cdc.gov/TCEOnline](http://www.cdc.gov/TCEOnline).

**FEES:** No fees are charged for CDC's CE activities.



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