

ANNUAL REPORT

2017



ACMT

American College
of Medical Toxicology

2017 Annual Report

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Message from the Executive Director



Paul Wax, MD, FACMT

2017, ACMT's 24th year, was another year of growth and momentum. Highlights of the year to be covered in greater detail throughout this report include the Centers for Medicare and Medicaid Services (CMS) approving a first-ever unique billing code for medical toxicologists. A separate, yet equally important milestone was CMS's recognition of ACMT's Qualified Clinical Data Registry (QCDR) as a platform to track how medical toxicologists perform on a series of medical toxicology metrics developed by ACMT.

ACMT also had its voice heard at the American Medical Association (AMA) as President Charles McKay, MD, FACMT, helped lead the successful passage of an AMA resolution supporting ACMT's PEHSU (Pediatric Environmental Health Specialty Units) program. In 2017, we continued to organize several outstanding educational conferences including ACMT's 14th Annual Scientific Meeting held in San Juan, Puerto Rico, and ACMT's 7th Seminar in Forensic Toxicology, held in Philadelphia, which focused on the medicolegal aspects of the Opioid Epidemic.

Other highlights included the publication of eight peer-reviewed manuscripts from the Toxic (Toxicology Investigators Consortium) program (2017 was Toxic's eighth year), organizing a successful PEHSU Annual Meeting in Denver, CO, and the publication of an important position statement on Preventing Occupational Fentanyl and Fentanyl Analog Exposure to Emergency Responders.

To help support all of this work, ACMT has continued to add key staff to the organization. In 2017 the ACMT staff increased to ten full-time and three part-time employees. Kristen Malecki, MA, joined us in March as our first Online Communications Manager responsible for all ACMT communications including the four websites we oversee, the monthly ACMT E-newsletter, 'The ACMT Connection', social media outreach, and event promotion. Sandra Kirilovic joined ACMT in June as our new Membership and Program Coordinator. Sandra's responsibilities include webinar coordination, membership administration and conference coordination. Tracy Kolian, MPH, who served previously as the Deputy Director of Public Health Policy at the American Public Health Association joined in December as ACMT's part-time Director of Strategic Innovation and Funding. We welcome our new staff.

2017 also marks the first time ACMT is publishing an Annual Report. In an era of constant email, tweets, and texts, the big picture is often lost in a setting of a continuous streams of bytes of information. One of the core goals of the ACMT Strategic Plan is to "Enhance Member Engagement." And under this goal one of our 3 objectives is to "Establish an Annual Report." We hope you take time to read our first annual report and learn more about the American College of Medical Toxicology.

Sincerely,

Message from the President



Charles McKay, MD, FACMT

Welcome to the Annual Report on 2017 ACMT achievements!

As you scroll through this annual report, I would encourage you to consider and thank the ACMT staff that work so hard to help the College succeed and put our goals into practice every day. Led by our Executive Director, they are the glue that keeps our committees, sections, and activities together and moving forward.

When you get emails reminding you that – lo and behold – a new year is beginning and your membership dues need to be paid, remember that funds help support our staff and keep a professional organization running, developing tools and delivering member benefits that will help you in your toxicology practice. In fact, if you pay your dues with the first notice, that frees up staff and the volunteer ACMT members to do other work!

When reminded about a deadline for the many monthly educational opportunities we provide, remember that staff is responding to CME and other requirements to allow participants to benefit from the information you will be providing. Our outreach to other professional societies and governmental organizations is having a positive impact – both in messaging to the public and in an improved understanding of toxicology principles.

Scan the list of new ACMT members, and those who have achieved new levels of recognition or achievement. Many are pushing the practice of medical toxicology into areas such as addiction medicine or public health, improving the care of patients – individually and across populations. Many have and are delivering successful educational sessions for you, their colleagues, and others. Congratulate them and their work on behalf of ACMT and their profession – clinically, in research, and in education – when you see them at ASM!

Sincerely,

Welcome 2017 New ACMT Members

FULL MEMBERS

Members who are newly certified in the subspecialty of Medical Toxicology by the American Board of Emergency Medicine (ABEM), the American Board of Pediatrics, or the American Board of Preventive Medicine and became Full Members of the College in 2017.

Gillian Beauchamp, MD
Katherine Boyle, MD
Dazhe Cao, MD
Stephanie Carreiro, MD
Vinodinee Dissanayake, MD
Lynn Farrugia, MD

Ashley Haynes, MD
A. Kang, MD
Jenna LeRoy, MD
Alaina Steck, MD
Paul Stromberg, MD
George Wang, MD

Joseph Yanta, MD
Paul Stromberg, MD
George Wang, MD
Joseph Yanta, MD
Matthew Zuckerman, MD

ASSOCIATE MEMBERS

Physicians who have successfully completed a residency-training program in a primary medical specialty and who are enrolled in a medical toxicology training program.

Rabeea Ahmed, MD
Musa Alfaifi, MD
Asaad Alsufyani, MBBS
Waleed Said Alsukaiti, MD
Keith Baker, MD
Caitlin Bonney, MD
Evan Bradley, MD
Nicklaus Brandehoff, MD
Joseph E. Carpenter, MD
Takuyo Chiba, MD
James Chomin, MD
Michael Connolly, MD
Jonathan de Olano, MD
Katharine Devin-Holcombe, MD
Mirjana Dimovska, MD

Alyrene Dorey, MD
Camille Dunkley, MD
Maxim Dzeba, MD
Yazeed Eldos, MBBS
Erik Fisher, MD
Hiroko Furo, MD
Elie Harmouche, MD
Adrienne Hughes, MD
Kim Kwai, MD
Jaiva Larsen, MD
Ryan Marino, MD
Clifford Masom, MD
Daniel McCabe, MD
Eric McGillis, MD
Ahmed Mostafa, MD

Brian Patrick Murray, DO
Patrick Ng, MD
Lauren Porter, DO
Arkady Rasin, MD
Madeline Renny, MD
Tony Rianprakaisang, MD
Matthew Riddle, MD
Jason Rose, MD
Anthony Scoccimarro, MD
Jonathan Schimmel, MD
Joshua Shulman, MD
Laura Tortora, MD
Sarah Watkins, DO

INTERNATIONAL MEMBERS

A physician who is licensed to practice medicine in countries outside the United States and who practices medical toxicology as a substantial portion of their professional activities.

Betty Chan, MBBS
Channa Jayasumana, MBBS
Kushaharan Sathianathan, MBBS

AFFILIATE MEMBERS

Licensed physicians or non-physicians with an advanced-level degree or ABAT certification that either works in a field related to medical toxicology or has demonstrated significant interest in medical toxicology.

Peter Crane, MD
William Eggleston, PharmD
Manoj Tyagi, PhD

Congratulations 2017 ACMT Fellows



Maryann Amirshahi, MD, MPH, PharmD, FACMT
MedStar Washington Hospital Center
Washington, DC



Heather Borek, MD, FACMT
University of Virginia School of Medicine
Charlottesville, VA



Jennie Buchanan, MD, FACMT
Rocky Mountain Poison and Drug Center
Denver, CO



Jarrett Burns, DO, FACMT
Harrington Memorial Hospital
Southbridge, MA



Nathan Charlton, MD, FACMT
University of Virginia School of Medicine
Charlottesville, VA



Jon Cole, MD, FACMT
Minnesota Poison Control System
Minneapolis, MN



Shaun Greene, MBBS, FACMT
Victorian Poisons Information Centre
Melbourne, Australia



John Kashani, DO, FACMT
St. Josephs Regional Medical Center
Patterson, NJ



Heather Long, MD, FACMT
Albany Medical Center, Albany, NY



Derrick Lung, MD, MPH, FACMT
San Mateo Medical Center
San Mateo, CA



Jennifer Oakes, MD, FACMT
St Joseph's Medical Center
Stockton, CA



Diane Sauter, MD, FACMT
Georgetown University Hospital Center
Washington, DC



Evan Schwarz, MD, FACMT
Washington University
Saint Louis, MO



Laura Tormoehlen, MD, FACMT
Indiana University, Indianapolis, IN

MISSION STATEMENT

Advancing the toxicologic care of patients and populations; and advocating for the specialty of medical toxicology.

VISION STATEMENT

Everyone will know the essential role and value of the medical toxicologist.

VALUES

Advocacy

Advocate for the care of toxicologic patients and individuals with substance abuse disorders

Education

Promote and sustain continuous learning and competency in medical toxicology and serve as the education leaders for other health care providers and the public

Global Health

Advocate for the specialty of medical toxicology globally. Collaborate with health care providers globally through education and research

Innovation

Lead change in the field of medical toxicology

Integrity

Be ethical, transparent, and evidence-informed in our communications with our patients and the public

Leadership

Guide change and set the standards that will chart the course of medical toxicology

Membership

Provide our members with mentorship and high quality benefits and encourage diverse practices and career fulfillment

Patient Care

Provide high quality direct patient care in a variety of clinical settings

Research

Create research opportunities that yield new toxicologic knowledge and translate it into clinical care and public health improvement

GOALS

Goal 1: Establish the Value of Medical Toxicology

Goal 2: Establish Membership Value

Goal 3: Enhance Member Engagement

EDUCATION

2017 CONFERENCES

ACMT Annual Scientific Meeting San Juan, Puerto Rico

The 2017 Annual Scientific Meeting (ASM), March 30–April 2, explored the theme Toxicologic Impact: Research, Practice, Teach. Day one was dedicated to cutting-edge research in the field of medical toxicology. Day two addressed the roles and responsibilities of the medical toxicologist in caring for poisoned patients. Day three focused on education and how to teach future medical toxicology experts.

The distinguished speaker lineup included **Jeremy Sugarman**, MD, MPH, MA, from Johns Hopkins Berman Institute of Bioethics in Baltimore, MD. Dr. Sugarman delivered a keynote lecture on exploring ethical issues in medical toxicology research. **Teresa Chan**, MHPE, MD, FRCPC, from McMaster University in Hamilton, Ontario delivered two educational sessions: 'Teaching Toxicology: Diagnosing and Managing the Learner', and 'Cutting Edge Medical Education in Toxicology'. The conference also featured **Mark Kirk**, MD, from the Department of Homeland Security on 'Tox & Terror: The Role of the Medical Toxicologist in Homeland Security', and **Greg Powell**, PharmD, MBA from GlaxoSmithKline in Chapel Hill, NC, on 'Tweets & Drugs: Using Social Media to Monitor Prescription Drug Epidemics'.



2017 ASM AT-A-GLANCE

- 213 registrants
- 120 poster presentations
- 70 Medical Student and Resident attendees, 35 of whom live in Puerto Rico.

ASM had a new conference app in 2017, enhancing attendee experience with more user-friendly access to agenda, attendee contact info, and more!

- The app was downloaded 226 times
- 89% of conference attendees created profiles

Favorite features of the app included presentation slides, the ability to view poster abstracts and the activity stream.

ATTENDEE FEEDBACK



'The conference was excellent, in fact one of my favorites. Great speakers, great topics and small enough to have significant interactions with my colleagues, friends and fellow from other programs.'

'Dr. Juurlink's presentation was perhaps the high point of the conference. Dr. Kulig's Ellenhorn lecture was one of the best I've seen in the last 10 years—a truly moving and and heartfelt talk.'

'The FIT Open Mic was fantastic, a true treasure of the Annual Scientific Meeting!'

EDUCATION

2017 CONFERENCES

ACMT Annual Scientific Meeting Satellite Sessions & Awards San Juan, Puerto Rico

ACMT hosted two Satellite Sessions in San Juan on Thursday, March 29, 2017, that preceded ASM.

ACMT Satellite Session I 'Epidemic of Addiction: Prescription Opioids, Heroin & Fentanyl' was a full-day discussion on the epidemiology and history of addiction, newest data and best practices for treatment, and forensic aspects of the epidemic.

Topics discussed:

- The increasing number of opioid related overdose deaths in the US
- Addiction and overdose demographics in the US
- How the opioid crisis evolved over time
- Current CDC and VA/DOD guidelines for prescribing opioids

ACMT Satellite Session II 'Zika Overview: A 360 Degree Look at the Epidemic' featured presenters dedicated to preventing and controlling the Zika Epidemic in Puerto Rico. The session also explored the public health aspects of pesticide-use in relation to Zika.

Topics discussed:

- 40,000 confirmed cases of Zika across Puerto Rico, including 3,200 among pregnant women
- Modes of virus transmission and epidemiology and pathogenesis
- Infectious diseases in areas previously protected, pesticide development, the implications of pesticide bans, long-term chronic exposure to pesticides, and cancer rates

2017 AWARDS

Ellenhorn Award



Congratulations to **Ken Kulig**, MD, FACMT, for receiving the 2017 ACMT Ellenhorn Award. At ASM in Puerto Rico, Dr. Kulig pointed to the remarkable changes over the past 30 years in his presentation "One Medical Toxicology Career from the Rearview Mirror."

Outstanding Contributions to Medical Toxicology Research

Congratulations to **Eric J. Lavonas**, MD, FACMT, for receiving the 2017 ACMT Award for Outstanding Contributions to Medical Toxicology Research. Dr. Lavonas (right, with Charles McKay) was recognized for his significant research contributions in medical toxicology at ASM in Puerto Rico.



2017 ASM Travel Award Recipients

Michael P. Spadafora Medical Toxicology Travel Award

Awarded to: **Alexander Huh**, MD, Emergency Medicine Resident, University of Pittsburgh

Travel Scholarship For Underrepresented Minority Medical Trainees

Awarded to: **Sarah Ann Anderson**, MD, PhD, Pediatric Resident, Morgan Stanley Childrens Hospital of New York Presbyterian Hospital

EDUCATION

2017 CONFERENCES

ACMT Seminar in Forensic Toxicology Opioids, Toxicology, and the Law: Medical-Legal Aspects of the Opioid Epidemic December 11-12, Philadelphia, PA

Held at Philadelphia's Chemical Heritage Foundation, the 2017 Seminar in Forensic Toxicology was so well-received, we are having an encore!

Experts in medicine, law, and government, presented case studies and research on today's opioid epidemic to more than 150 attendees, at ACMT's highest attended forensic course to date.

Highlights included:

- Acute Opioid Toxicity
- Impairment
- Post-Mortem & Laboratory Issues
- Opioids in Court
- Use of Opioids in Pain Management
- Use of Opioids in Addiction Therapy
- Challenges of Criminal Cases



ATTENDEE FEEDBACK



'I loved the diversity of presentations and that the seminar covered the wide range of professions that are impacted by this topic.'

'This was one of the best seminars I've attended in 30 years.'

'The experience and knowledge of each presenter was outstanding. The overall conference was excellent with the interdisciplinary presenters and topics as well as the discussions held with the audience.'

'This was the best ACMT conference I have ever attended.'

ENCORE!

**Didn't make it to Philadelphia?
You can attend an encore presentation of:**

**'Opioids, Toxicology, and the Law:
Medical-Legal Aspects of the Opioid Epidemic'**

In Dallas on December 11-12, 2018, OR purchase recordings of the 2017 seminar online!

Visit acmt.net for details.

EDUCATION

2017 WEBINARS & ON DEMAND LEARNING

The Global Educational Toxicology Uniting Project (GETUP)

GETUP is aimed at increasing toxicology education between centers with and without medical toxicology services through videoconferencing.



2017 GETUP At-A-Glance

- Published: Results from an online toxicology course undertaken with participants from over 30 countries (Wong A, Vohra R, Dawson AH, Stolbach A. Impact of online toxicology training for health professionals: The Global Educational Toxicology Uniting Project. Clin Tox 2017 55(9):981-985).
- In the 136 participants, there was an overall improvement and retention in medical toxicology knowledge as a result of the course, with some comments of changes in practice.

The Global Educational Tool KIT (GETKIT) was also launched, with the help of an MTF Innovative Research and Teaching Award/Grant from ACMT. The course aims at improving medical toxicology knowledge with emergency doctors in developing countries without toxicology services. As the lead PI, Kathy Kopec, DO, and other team members have successfully run the day-long course in multiple countries (including Nepal, Tanzania, Mexico) with follow up studies to begin in 2018. See pg. 12 for more.

Director of GETUP, Anselm Wong, MBBS, DipTox, FACEM, FACMT, received an International Development Award and Grant from the Australasian College for Emergency Medicine, to study the use of a mobile toxicology database app in the hope of increasing and identifying areas of "knowledge gaps" but also studying its novel utility as a toxicovigilance tool.

Multicenter videoconferences and recorded YouTube conferences are continuously being uploaded to acmt.net.

Medical Toxicology Life Long Learning Assessment Webinar

In July, ACMT hosted its biennial LLSA Webinar, which provides a dynamic and comprehensive review of articles identified for self-study by the ABMS Medical Toxicology Subboard. The webinar was attended by 101 ACMT members, who were guided through the literature as well as provided an opportunity to sit through the 2017 Toxicology LLSA test.

ACMT Webinars

ACMT hosts regularly scheduled webinars which are part of our membership benefits. National Case Conference, Grand Rounds, and National Journal Club are led by members and other experts in medical toxicology. Webinars can be attended online live, or streamed online anytime.

2017 Webinars AT-A-GLANCE

ACMT | National Case Conference

- 11 webinars
- 2,206 attendees

ACMT | Grand Rounds

- 6 webinars
- 767 attendees

ACMT | National Journal Club

- 5 webinars
- 403 attendees

EDUCATIONAL COLLABORATION & PROGRAMS

ACMT Toxicology Visual Pearls for ALiEM



Academic Life in Emergency Medicine is a popular and well regarded online source of medical education devoted to providing high quality and accessible educational resources. In 2017, ACMT and ALiEM collaborated to develop a series called "ACMT Visual Pearls."

The Visual Pearls posts typically begin with one to two clinical images as prompts followed by a related multiple choice question. A brief explanation as well as a few bedside pearls and references accompany the correct answer.



In 2017, ACMT continued to manage Regions 6-10 of the national PEHSU's. 2017-2018 is the 4th year of a 5-year cooperative agreement supporting PEHSU from the Agency for Toxic Substances and Disease Registry of the Centers for Disease Control and Prevention (ATSDR) and the Environmental Protection Agency (EPA).

PEHSU has developed several eLearning modules on pediatric and adolescent marijuana exposure, pesticides and children's health, and endocrine disrupting chemicals. In 2017, PEHSU produced nine webinars on topics including environmental justice, phosphine, wildfire smoke, and uranium in drinking water aimed at ACMT members, pediatricians, nurses, other health care professionals, etc.

PEHSU also distributes a monthly E-newsletter, which features regional highlights and national news relevant to the program. For example, after Hurricane Harvey in Houston, PEHSU distributed information on floodwater and mold hazards.

ACMT Collaborates with Academic Life in Emergency Medicine (ALiEM) to Present ACMT Visual Pearls Series

2017 Visual Pearls AT-A-GLANCE

Five ACMT Visual Pearls published on ALiEM blog

The posts have collectively garnered over 10,000 views and counting!

Pearls published:

- Suicide Plant
- Exotic Viper Envenomation (Received an ALiEM Honorable Mention)
- Discolored Skin and Urine
- Drug-Induced QT Prolongation
- Toxic 'Weed'

Interested in submitting a visual pearl?
Visit Online Education at acmt.net

The PEHSU program also exhibited at several important medical and public health association meetings this year including the Association of American Medical Colleges, American Public Health Association, and the American College of Obstetricians and Gynecologists.

In June, PEHSU launched a new Pediatric Environmental Health Web Toolkit for healthcare providers (PEHT). This free and up-to-date resource offers trusted information and is endorsed by the AAP. Providers can bookmark the toolkit web app and discover simple ways to educate and guide parents about environmental health during well child visits.

Visit pehsu.net to learn more.



ADVANCING MED TOX RESEARCH



ACMT's ToxIC Registry continues to grow with **48 active sites and over 55,000 cases**, under the leadership team of Jeffrey Brent (Principal Investigator), Paul Wax (Co-Principal Investigator), Diane Calello (Director of Site Coordination and Research), Sharan Campleman (Program Manager), and Anne Riederer (Research Scientist).

ToxIC research continues to grow. We had several abstracts presented at ACMT's Annual Scientific Meeting, NACCT, and SAEM conferences.

The following manuscripts were published in 2017:

1. Farrugia LA, Rhyee SH, Calello DP, Campleman SL, Riederer AM, Malashock HR, Pizon A, Wiegand T, Wax PM, Brent J. **The Toxicology Investigators Consortium Case Registry-the 2016 Experience. Toxicology Investigators Consortium Study Group.** J Med Toxicol. 2017 Aug 1.
2. Finkelstein Y1, Goel G, Hutson JR, Armstrong J, Baum CR, Wax P, Brent J; **Toxicology Investigators Consortium (ToxIC). Drug Misuse in Adolescents Presenting to the Emergency Department.** Pediatr Emerg Care. 2017 Jul;33(7):451-456.
3. Heise CW, Malashock H, Brooks DE. **A review of vilazodone exposures with focus on serotonin syndrome effects.** Clin Toxicol (Phila). 2017 Nov;55(9):1004-1007.
4. Ho JH1, Leikin JB2,3, Dargan PI4,5, Archer JRH1,6, Wood DM1,6, Brent J7. **Metal-on-Metal Hip Joint Prostheses: a Retrospective Case Series Investigating the Association of Systemic Toxicity with Serum Cobalt and Chromium Concentrations.** J Med Toxicol. 2017 Sep 12.
5. Monte AA, Calello DP, Gerona RR, Hamad E, Campleman SL, Brent J, Wax P, Carlson RG; **ACMT Toxicology Investigators Consortium (ToxIC). Characteristics and Treatment of Patients with Clinical Illness Due to Synthetic Cannabinoid Inhalation Reported by Medical Toxicologists: A ToxIC Database Study.** J Med Toxicol. 2017 Apr 10. PubMed PMID: 28397128.
6. Rasimas JJ, Smolcic EE, Sinclair CM. **Themes and trends in intentional self-poisoning: Perspectives from critical care toxicology.** Psychiatry Res. 2017 Sep;255:304-313. PubMed PMID 28601000
7. Ruha AM, Kleinschmidt KC, Greene S, Spyres MB, Brent J, Wax P, Padilla-Jone A, Campleman S; **ToxIC Snakebite Study Group. The Epidemiology, Clinical Course, and Management of Snakebites in the North American Snakebite Registry.** J Med Toxicol. 2017 Oct 3. PubMed PMID:28975491
8. Spyres MB, Ruha AM, Kleinschmidt K, Vohra R, Smith E, Padilla-Jones A. **Epidemiology and clinical outcomes of snakebite in the elderly: a ToxIC database study.** Clin Toxicol (Phila). 2017 Jul 13:1-5. PubMed PMID: 28703020

ToxIC Highlights 2017

- Registry successfully converted to the REDCap platform
- Launched website toxicregistry.org
- We continue to enjoy grant support from BTG and FDA, as well as the R01 NIH grant with Principal Investigator Alex Manini.
- Launched the **ToxIC Champions** program to improve site coordination and communication

ADVANCING MED TOX RESEARCH



MTF Awards

About the Medical Toxicology Foundation

ACMT's Medical Toxicology Foundation (MTF) works to sustain and improve the practice of medical toxicology and is committed to funding toxicology education and research programs that are vital to the care of patients suffering from the adverse effects of drug, chemical and natural toxin exposures.

In 2017, MTF had a total of 82 gifts totaling \$71,178.00

How your gift counts:

As the MTF strives towards a brighter future for medical toxicology, we count on continued generosity from our supporters. No other organization is better equipped to help meet the demand for better patient care today while advancing the course of education and research that will yield tomorrow's medical breakthroughs.

By supporting the MTF, you play an integral role in advancing patient care, while ensuring the future of medical toxicology.



Winner of the 2017-18 MTF Emergency Medicine Foundation Research Grant, Dalia Alwasiyah, MD, is currently part of a team examining the connection of Urinary Gadolinium levels and long-term retention after contrast enhanced MRIs.



Recipient of the 2017-18 Innovative Teaching and Research Award, David Jang, MD, continues to work on his ACMT-funded study seeking to evaluate both the changes in mitochondrial bioenergetics and dynamics using blood cells obtained from patients affected by carbon monoxide (CO) poisoning.



Recipient of the MTF 2017-18 Innovative Research and Teaching Award, Kathy Kopec, DO, has created the **Global Educational Toxicology Tool Kit (GETKIT)**, an interactive one-day course aimed at teaching the essentials of medical toxicology to healthcare providers in low and middle-income countries. Often these regions lack formal training in toxicology, however, they have a significant burden of morbidity and mortality secondary to poisonings.



2017 Published Abstracts from MTF Grants

2016 Medical Toxicology Foundation Innovative Research and Teaching Award

Abstract: Lai J, Chai P, Boyle K, Boyer E. Acceptance Among Heroin Users of Advanced Technology in Studying Naloxone Distribution Programs. *J Med Toxicol* 2017;13:13 (abstract #30)

2015 Medical Toxicology Foundation Innovative Research and Teaching Award

Abstract: Chapman B, Lai J, Nader N, Carey J. Do Adolescents Post Social Media Content Indicative of Self-Harm and Intentional Poisonings? *J Med Toxicol* 2017;13:38 (abstract #103)

2014 Medical Toxicology Foundation Innovative Research and Teaching Award

Abstract: Menke N, Pizon A, Menke M. Utilizing a Machine Based Learning Algorithm to Predict Mortality in Acetaminophen Overdose. *J Med Toxicol* 2017;13:5 (abstract #6)

ADVOCATING FOR MEDICAL TOXICOLOGISTS

ACMT continues to advocate for medical toxicologists and ongoing improvements in patient care.

New Medical Toxicology Billing Code

As of October 1, 2017, Medical Toxicology is appropriately recognized as a unique medical specialty by the Center for Medicare and Medicaid (CMS). This means that Medicare/Medicaid, private insurers, hospital systems and other organization will be able to identify medical toxicologists as they provide toxicology services distinct from their primary specialty or other services they may bill for (e.g. providing care under Emergency Medicine).

The specialty code will simplify billing and reimbursement and potentially reduce denials for these services. Toxicology care and support will be easier to identify with the presence of a billing code and the impact and quality of care rendered by toxicologists will be able to be identified, separated from other types of service and compared in terms of quality and outcomes.

"This new specialty code will simplify billing and reimbursement and potentially reduce denials for toxicology services" said ACMT Board Member Timothy Wiegand, MD, FACMT.

Contact your program director and billing/charge support so that they can make sure that medical toxicology services are billed under the appropriate specialty code (C8-PHY).

Billing & Codes

ACMT Develops First-Ever Medical Toxicology Quality Measures Approved by CMS



The Centers for Medicare & Medicaid Services (CMS) announced in late-December 2017 that they have approved six quality

measures that were developed by ACMT. These are the first-ever medical toxicology quality measures approved by CMS, and are now among hundreds of measures that physicians can report to CMS as part of their Merit-Based Incentive Payment System (MIPS) program.

The six CMS-approved measures include:

- Screening for risk of opioid misuse
- Pregnancy test in women who receive toxicologic consult
- EKG assessment in acute overdose
- Treatment for acetaminophen ingestions
- Assessment of suspected ethylene glycol or methanol exposures
- Repeat assessment of salicylate concentrations in overdose patients



CMS also certified ACMT's Toxicology Investigators Consortium (Toxic) Registry as a Qualified Clinical Data Registry (QCDR).

The Toxic registry will go live with the Toxic QCDR on February 1, 2018, a metrics instrument, which seeks to demonstrate systematically the benefits to patients cared for by medical toxicologists.

Quality metrics, long established in most specialties under directives from the Centers for Medicare and Medicaid (CMS), have now come to medical toxicology. These metrics were developed by an ACMT tasks force in conjunction with the membership at large and have been approved by CMS. They will be incorporated into the Toxic Registry.

ADVOCATING FOR MEDICAL TOXICOLOGISTS

Positions & Guidelines

AMA Advocacy

In 2017, the ACMT Positions and Guidelines Committee released four Position Statements:

Addressing the Rising Cost of Prescription Antidotes

The Committee has tracked the steady escalation in prescription drug crisis with great concern. This statement addresses causes of cost increases of antidotes, and proposes potential solutions.

Alternative or Contingency Countermeasures for Acetylcholinesterase Inhibiting Agents

Fellow scientists in defense and homeland security are interested in options for nerve agent medical countermeasures when a pre-approved antidote is expired or otherwise not available. This statement proposes instances where it may be appropriate to use expired drugs or drugs that are not approved for nerve agent poisoning but are in the same therapeutic class.

The Role of Clinical Pharmacists in the Emergency Dept.

Clinical pharmacists improve patient safety by intercepting drug errors and recognizing adverse events. 24-hour clinical pharmacist staffing may also be financially justified by avoiding costly errors and redundancies. Brenna Farmer, MD, Chair of ACMT's Medication Management Section, and fellow members wrote this Position Statement in support of staffing clinical pharmacists in the ED.

Preventing Occupational Fentanyl and Fentanyl Analog Exposure to Emergency Responders

In 2016, the Committee began watching with concern as unverified reports surfaced of first responders reporting illness after seemingly trivial exposures to opioids. A subsequent NIOSH report recommended extensive PPE for routine prophylaxis. In response, the ACMT Position Statement and Guidelines Committee collaborated with the American Academy of Clinical Toxicology (AACT), to make reasonable, protective recommendations using the best available evidence. Our position statement, led a national conversation that influenced White House Office of National Drug Control Policy.



ACMT President, Charles McKay, MD, FACMT, passed two important resolutions with the American Medical Association in support of the PEHSU program as follows:

"That our AMA supports the mission of and ongoing funding of academically-based regional Pediatric Environmental Health Specialty Units (PEHSU) by the Agency for Toxic Substances and Disease Registry of the Centers for Disease Control and Prevention (ATSDR/CDC) and the Environmental Protection Agency (EPA)."

RESOLVED: "That our AMA supports educational and consultative activities of the PEHSU program with local pediatricians, medical toxicologists, obstetricians, and others providing care to pregnant patients.

In addition, ACMT is mid-way through a 3-year provisional period of Medical Toxicology representation at the AMA. Charles McKay has attended the last three meetings of the Specialty and Service Society (SSS).

In the face of threats to funding of PEHSU, the AMA's policy and lobbying arms can be invoked to encourage legislative support. This type of reach is invaluable and cannot occur without the connection to the larger world of organized medicine.

If 100 medical toxicologists join AMA by the end of 2018 it will demonstrate the membership minimum required by the AMA for a specialty society to gain representation on the House of Delegates.

The AMA will provide a discount if all members of a group join (such as a division or a poison center's call group).

Learn more at acmt.net/The_ACMT_Connection

PUBLICATIONS

Journal of Medical Toxicology

Publishing cutting-edge and relevant medical toxicology scholarship.

As the official journal of ACMT, the *Journal of Medical Toxicology* (JMT) is managed by an editorial board of 23 prominent toxicologists who are dedicated to publishing research that is relevant to medical toxicologists, emergency physicians, critical care specialists, pediatricians, pre-hospital providers, occupational physicians, substance abuse experts, veterinary toxicologists, and policy makers.

JMT articles generated considerable interest in the lay media, with JMT articles cited by various news media outlets such as US News and World Report, NBC News, CBS News, CNN, and various social media sites in 2017.

2017 JMT AT-A-GLANCE

- JMT received submissions from over 50 different countries
- Over 8,000 institutions worldwide included JMT in their online packages
- Downloaded articles by JMT readers increased 45%
- Google Scholar position increased to #10 (from #13 in 2016)
- CiteScore increase 8%
- Number of submitted manuscripts increased 16%
- All submissions that include any numbers are now reviewed by a statistics editor
- Submission to first decision averaged 16 days, this is among the fastest in peer review journals
- Peer reviewers earned up to 15 CME credits for the service to JMT as part of a unique cooperative agreement JMT has with the CDC



"Teletoxicology: Patient Assessment Using Wearable Audiovisual Streaming Technology" by Aaron Skolnik and co-authors was selected for inclusion in (JMT publisher) Springer-Nature's "Change the World" open access campaign as a terrific example of cutting-edge scholarship with the potential to change the world in unexpected ways.

"It is a terrific privilege to be the editor of JMT. The journal's upward trajectory would not be possible without the hard work of our dedicated editors and support of our authors, peer reviewers, and readers."

Mark B. Mycyk, MD, FACMT, Editor-in-Chief
Journal of Medical Toxicology

All ACMT members have electronic access to the *Journal of Medical Toxicology*. Download the new mobile app on your iPhone or Android!

OUTREACH: NEW IN 2017

The ACMT CONNECTION

In 2017, ACMT launched a monthly E-news 'The ACMT Connection.' ACMT updates, conference information and other news and opportunities for members are now delivered in one, concise email. Members can also view featured articles in the news section at acmt.net.

EXHIBITS

ACMT and PEHSU held promotional exhibits at several national conferences in 2017.

- American Society of Addiction Medicine Annual Conference (ASAM), New Orleans, LA
- American Public Health Association 2017 (APHA), Atlanta, GA
- North American Congress of Clinical Toxicology (NACCT), Vancouver BC
- American College of Emergency Physicians Scientific Assembly 2017 (ACEP), Washington DC
- Association of American Medical Colleges Annual Meeting (AAMC), Boston, MA
- American College of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting (ACOG), San Diego



New ACMT Special Interest Section

In 2017, the Women in Toxicology (WIT) Section formed to promote awareness of gender inequality and its implications for women and men in medicine. Our goal is to address these inequalities through various measures including mentorship, promotion, and regular discussions.



Several ACMT members were moved to create WIT after recognizing that many of our members lack access to peers and mentors to help guide their professional decisions and course. The success of other such organizations, which help address gender disparities in medical specialties, was also a source of inspiration.

Learn more and how to join WIT at acmt.net/sections

ACMT Hosts Tweet Chats

ACMT continued to expand its outreach through social media in 2017, with an increased focus on engaging the toxicology community. We launched quarterly Tweet Chats, moderated by member Peter Chai (@PeterRchai), which joins medical toxicologists, other physician specialists, allied health professionals, and laypersons, in discussions about toxicology topics of shared interest. A JMT article serves as the focal point for each Tweet Chat. Topics in 2017 included kratom, cannabinoid hyperemesis syndrome, synthetic cannabinoids, and fentanyl as an occupational exposure risk.

Tune in at #FiresideTox

Social Media and Outreach



ACMT hosts several Twitter accounts including @ACMT, @JMT_tweets, and @WomeninTox. Combined, we have more than 4,200 followers, many of whom are in the field of medical toxicology. ACMT is also on Facebook @AmericanCollegeMedTox. Follow us!

The PEHSU program also shares on social. Follow us on Twitter and Facebook @PEHSUnational.

ACMT received over 20 media requests in 2017. Most journalists request an expert for articles on current news relating to toxicology. The ACMT Position Statement 'Preventing Occupational Fentanyl and Fentanyl Analog Exposure to Emergency Responders' received the most media attention, and we were able to respond to many requests.

Thank You 2017 ACMT Committees and Sections

Addiction Medicine Committee
Chair: Timothy Wiegand, MD, FACMT
Co-Chair: JoAn Laes, MD

Awards Committee
Chair: Leslie Dye, MD, FACMT

Clerkship Council Committee
Chair: Ziad Kazzi, MD, FACMT

Education Committee
Chair: Bryan Judge, MD, FACMT

Fellowship Directors Committee
Chair: Tony Pizon, MD, FACMT

International Committee
Chair: Ziad Kazzi, MD, FACMT

Membership Committee
Chair: Evan Schwarz, MD, FACMT

Nominations Committee
Chair: Charles McKay, MD, FACMT

Position Statements and Guidelines
Chair: Andrew Stolbach, MD, FACMT

Practice Committee
Co-Chairs: Tim Wiegand, MD, FACMT
and Danyal Ibrahim, MD, FACMT

Research Committee
Chair: William Russ Kerns, MD, FACMT

Communications Section
Chair: Michelle Ruha, MD, FACMT

Government Section
Chair: Richard Wang, DO, FACMT

Industry Section
Chair: S. Eliza Dunn (Halcomb), MD, FACMT

Legal and Consultative Section
Chair: Brent Furbee, MD, FACMT

Medication Management Section
Chair: Brenna Farmer, MD, FACMT

Military Section
Chair: Shaun Carstairs, MD, FACMT

Pediatric Section
Chair: Shan Yin, MD, FACMT

Recent Graduate Section
Co-Chairs: Michael Darracq, MD, Kate Katzung, MD,
and Derrick Lung, MD

Women in Tox Section
Chair: Ayrn O'Connor, MD, FACMT

Thank You 2017 ACMT Board Members



Charles McKay, MD, FACMT
President (2016-2019)



Anne-Michelle Ruha, MD, FACMT
Vice President (2016-2019)



Louise Kao, MD, FACMT
Secretary/Treasurer (2016-2019)



Leslie R. Dye, MD, FACMT
Past President (2016-2019)



Diane Calello, MD, FACMT
Board Member (2016-2020)



Bryan Judge, MD, FACMT
Board Member (2016-2020)



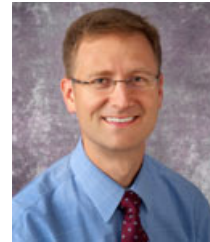
Ziad Kazzi, MD, FACMT
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William Kerns, II, MD, FACMT
Board Member (2014-2018)



Aym O'Connor, MD, FACMT
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Anthony Pizon, MD, FACMT
Board Member (2015-2019)



Evan Schwarz, MD, FACMT
Board Member (2016-2019)



Andrew Stolbach, MD, FACMT
Board Member (2015-2018)



Timothy Wiegand, MD, FACMT
Board Member (2015-2019)



Paul M. Wax, MD, FACMT
Executive Director

Thank You ACMT Staff



Paul Wax, MD, FACMT
Executive Director
(June 2008)



Amanda Allen
Instructional Designer, PEHSU
(June 2015)



Sharan Campleman
Program Manager, ToxIC
(November 2014)



Carrie Dickenson
Senior Program Manager, PEHSU
(April 2015)



Adrienne Dunavin
Education Program Manager
(February 2016)



Melanie Foltz
Accounting and Grant Compliance
Manager
(May 2015)



Dana Turner Karshenas
Program Manager, Communications
and Grants Office
(November 2014)



Sandra Kirilovic
Membership and Program Coordinator
(June 2017)



Tracy Kolian
Director of Strategic Innovation and Funding
(December 2017)



Kristen Malecki
Online Communications Manager
(March 2017)



Lizzy Nguyen
Assistant Program Manager, PEHSU
(June 2015)



Anne Riederer
Research Scientist, ToxIC
(May 2015)



Tricia Steffey
Executive Assistant
(March 2008)

2017 ACMT Outstanding Voluntary Service Recognition

These members were recognized by the ACMT Board of Directors for outstanding voluntary service for their participation and leadership in ACMT programs, committees, outreach, and education. We thank each and every one of you for your time and dedication to ACMT.

Steve Aks, DO, FACMT
Cook County Hospital
Chicago, IL
Clerkship Council, National Journal Club

Maryann Amirshahi
MedStar Washington Hospital Center
Kensington, MD
Position Statements and Guidelines

Robert Bassett
Children's Hospital of Philadelphia
Philadelphia, PA
Clerkship Council

Carl Baum
Center for Children's Environmental
Toxicology, New Haven, CT
PEHSU

Gillian Beauchamp
Lehigh Valley Health Network
Allentown, PA
Liaison, ToxIC, Public Affairs, Education

Michael Beuhler
Carolinas Medical Center, Charlotte, NC
DHS

Katie Boyle
Beth Israel Deaconess Medical Center
Boston, MA
Research

Jeff Brent
University of Colorado, Denver, CO
ToxIC PI

Keith Burkhart
US Food and Drug Administration
Hershey, PA
ToxIC Liaison

Peter Chai
Brigham and Women's Hospital/Harvard
Medical School, Boston, MA
Public Affairs

Joe D'Orazio
Lewis Katz School of Medicine at
Temple University, Philadelphia, PA
Public Affairs

Kristin Engebretsen
Regions Hospital, St. Paul, MN
Membership

Melissa Gittinger (Halliday)
Emory University Physicians
Atlanta, GA
Public Affairs

Spencer Greene
Baylor College of Medicine
Houston, TX
Membership

Howard Greller
St. Barnabas Hospital
New York, NY
Public Affairs, Forum Moderator

Christina Hantsch
Loyola University Medical Center
Maywood, IL
Education

Michael Holland
Upstate Medical School
Syracuse, NY
Forensic Course

Kurt Kleinschmidt
UT Southwestern Medical Center
Dallas, TX
LLSA

Jeff LaPoint
Kaiser Permanente
San Diego, CA
Public Affairs, JMT Podcast

Greg LaSala
St. Joseph Hospital
Dana Point, CA
JMT Podcast

Eric Lavonas
Denver Health and Hospital Authority
Denver, CO
Research

Erica Liebelt
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Medical Toxicology Foundation

Michael Mullins
Washington University School of Medicine
St. Louis, MO
International

Mark Mycyk
Toxikon Consortium,
Cook County Hospital
Chicago, IL
Public Affairs, JMT Editor-in-Chief

Lewis Nelson
Rutgers New Jersey Medical School
Newark, NJ
National Case Conference

J.J. Rasimas
Hennepin County Medical Center
Minneapolis, MN
Grand Rounds Webinar

Daniel Sessions
San Antonio Military Medical Center
San Antonio, TX
Membership

Meghan Spyres
University of Southern California
Los Angeles, CA
ToxIC, Public Affairs, Women in Toxicology

Stephen Thornton
University of Kansas Health System
Poison Control Center
Leawood, KS
Membership

Steven Walsh
Einstein Medical Center
Philadelphia, PA
Grand Rounds Webinar

Brandon Warrick
University of New Mexico
Albuquerque, NM
Position Statements and Guidelines

Anselm Wong
Austin Hospital
Victoria, Australia
International

THANK YOU

Funders and Supporters

FEDERAL FUNDERS

Agency for Toxic Substances and Disease Registry (ATSDR)
Centers for Disease Control / National Center for Environmental Health
(CDC/NCEH)
Department of Defense (DOD)
Department of Homeland Security (DHS)
Environmental Protection Agency (EPA)
Food & Drug Administration (FDA)
National Institute of Health /National Institute of Drug Abuse (NIH/NIDA)

CORPORATE FUNDERS

BTG International, Inc.
Johnson & Johnson Consumer Inc., McNeil Consumer Healthcare Division
Monsanto

SUPPORTERS / COLLABORATORS

American Academy of Clinical Toxicology
American Academy of Emergency Medicine
American Academy of Pediatrics
Fredric Rieders Family Foundation
Radiation Emergency Response Training (REAC/TS)
Society of Forensic Toxicology
Springer

2016 ACMT Financial Statement

American College of Medical Toxicology
Financial Statement
For The Year Ended December 31, 2016

REVENUES, AND OTHER SUPPORT

Federal grant revenue	\$	1,518,622
Other grant revenue		272,548
Conferences		453,765
Membership dues		191,760
Publications revenue		47,419
Investment income (loss)		15,276
Other income		9,691
Total Revenue, and other Support		2,509,081

EXPENSES

Payroll expenses		994,435
Program consultants		37,423
Fees for services		33,831
Travel		106,228
Meals		10,905
Discretionary spending accounts		5,042
Banking expenses		16,138
Office expenses		7,346
Computer and web services		36,458
Equipment and maintenance		8,021
Insurance		10,786
Conference/meeting expenses		140,831
JMT publications expenses		11,622
Toxic case completion		16,200
Sub-grants		971,219
Miscellaneous expense		8,915
Amortization		6,348
Total Expenses		2,421,748

Change in Net Assets 87,333

NET ASSETS:

Beginning of Year		985,979
End of Year	\$	1,073,312