

# RYAN MARINO

## CURRICULUM VITAE

JUNE 11, 2023

### **PERSONAL INFORMATION**

Name	Marino, Ryan Timothy
Credentials	MD
Institution & Institute	University Hospitals Cleveland
Department	Department of Emergency Medicine
Office Address & Mail Code	11000 Euclid Avenue #B519B
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Office Email	ryan.marino@uhhospitals.org
Home Address	2159 W. 7 <sup>th</sup> St., Cleveland, OH 44113

### **EDUCATION & TRAINING**

#### **Education**

School: University of California Los Angeles, Los Angeles, CA  
Degree: Bachelor of Arts, Spanish Language and Literature  
Dates: 08/2006-06/2010

School: University of Pittsburgh School of Medicine, Pittsburgh, PA  
Degree: Doctor of Medicine  
Dates: 07/2010-06/2014

#### **Post-Graduate Training**

Institution: University of Pittsburgh Medical Center, Pittsburgh, PA  
Position: Emergency Medicine Residency  
Dates: 07/2014-06/2017

Institution: University of Pittsburgh Medical Center, Pittsburgh, PA  
Position: Medical Toxicology Fellowship  
Dates: 07/2017-06/2019

### **ACADEMIC APPOINTMENTS**

Rank & Department:	Assistant Professor, Departments of Emergency Medicine and Psychiatry
Institution:	Case Western Reserve University School of Medicine
Start-End Dates	07/2019-present

Rank & Department:	Clinical Instructor, Department of Emergency Medicine
Institution:	University of Pittsburgh School of Medicine
Start-End Dates	07/2017-06/2018

### **PROFESSIONAL APPOINTMENTS**

Position	Medical Toxicologist
Institution & Institute	The Cincinnati Drug and Poison Center
City, State / Country	Cincinnati, OH
Start-End Dates	5/2020-present
Position	Attending Physician
Institution & Institute	University Hospitals Cleveland
Department	Division of Medical Toxicology, Department of Emergency Medicine
City, State / Country	Cleveland, OH
Start-End Dates	7/2019-present
Position	Attending Physician
Institution & Institute	University of Pittsburgh Medical Center
Department	Department of Emergency Medicine
City, State / Country	Pittsburgh, OH
Start-End Dates	7/2017-6/2019

## **ADDITIONAL CAREER DEVELOPMENT:**

### **Leadership Development**

School / Institution	University Hospitals Physician Leadership Advancement Program
Start-End Dates	01/2022-06/2022

### **Educator Development**

School / Institution	Case Western Reserve University School of Medicine: Faculty Reaching for Academic Medical Excellence
Start-End Dates	08/2021-03/2022

### **Clinical Development**

School / Institution	Society for Academic Emergency Medicine Grantee Workshop
Start-End Dates	01/2019
School/ Institution	NIDA Clinical Trials Network Annual Steering Committee Meeting
Start-End Dates	03/2019

## **CERTIFICATION & LICENSURE**

### **Certification**

Name of Board	American Board of Emergency Medicine
Date Issued & Expires	2018-2028
Name of Board	Medical Toxicology (American Board of Emergency Medicine)
Date Issued & Expires	2020-2030
Name of Board	Addiction Medicine (American Board of Preventive Medicine)
Date Issued & Expires	2022-2031

### **Licensure**

Name of State Medical Board	Pennsylvania State Medical Board
License Number	MD459075
Date Issued & Expires	2016-2024

Name of State Medical Board	State Medical Board of Ohio
License Number	35.136351
Date Issued & Expires	2019-2024

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Name of Society	American College of Medical Toxicology
Role / Title	Member/Board Intern/Fellow/Awardee
Start-End Dates	2016-present

Name of Society	American College of Emergency Physicians
Role / Title	Alternate Councilor
Start-End Dates	2017-present

Name of Society	American Society of Addiction Medicine
Role / Title	Member
Start-End Dates	2022-present

## **PROFESSIONAL SERVICES**

### **Manuscript Reviewer**

Journal 1	JAMA Network
Start-End Dates	2019-present

### **Advisory Groups**

Organization	Advisory Council for National Fentanyl Awareness Day
Title	Member
Start-End Dates	5/2022-1/2023

## **COMMITTEE SERVICE**

### **National**

Organization	American College of Medical Toxicology Fellows in Training Association
Committee Name / Role	Chairman
Start-End Dates	03/2017-04/2018

Organization	American College of Medical Toxicology
Committee Name / Role	Board Intern
Start-End Dates	02/2018-06/2019

Organization	American College of Medical Toxicology
Committee Name / Role	Leader, Recent Graduate Section
Start-End Dates	05/2020-present

Organization	Ohio College of Emergency Physicians/American College of Emergency Physicians
Committee Name / Role	Alternate Councilor
Start-End Dates	05/2021-06/2022

### **Hospital Affiliate**

Organization	University Hospitals Cleveland
Committee Name / Role	Pain Management Institute Steering Committee
Start-End Dates	08/2019-present

Organization	University Hospitals Cleveland
Committee Name / Role	UH Pharmacy System Medication Safety & Therapeutics Committee Subcommittees: System Formulary Review, Psychiatry MS&T, Anesthesia/Pain MS&T
Start-End Dates	08/2019-present

Organization	University Hospitals Cleveland
Committee Name / Role	Department of Emergency Medicine Diversity, Equity and Inclusion Committee Co-Chair
Start-End Dates	02/2022-present

### **Educational Committees**

Organization	Emergency Medicine Residency Program Evaluation Committee
Committee Name / Role	Member
Start-End Dates	01/2020-present

Organization	Emergency Medicine Residency Clinical Competency Committee
Committee Name / Role	Member
Start-End Dates	11/2020-present

## **HONORS & AWARDS**

- NIH T-35 training grant funded by NIDDK (06/2011)
- 2011 University of Pittsburgh School of Medicine Dean's Summer Research Merit Award 06/2011
- Selected Presentation at "Science 2011" University of Pittsburgh conference on scientific research 08/2011
- University of Pittsburgh Jack E. Lipsitz Scholarship Award Recipient 2012-2014
- University of Pittsburgh School of Medicine Dean's Academic Scholarship 2010-2014
- University of Pittsburgh School of Medicine M James Sheehan/Laird Cheke Memorial Prize for Serving and Honoring the Patient 06/2014
- University of Pittsburgh Honors Convocation Honoree 06/2015
- University of Pittsburgh Medical Center Graduate Medical Education Committee Member 2016-2018
- Daisy Award, Children's Hospital of Pittsburgh of University of Pittsburgh Medical Center 05/2017
- 2017 Peter Safar Award for Excellence in Research, Selected by Faculty and Colleagues in University of Pittsburgh Emergency Medicine Residency 06/2017
- American College of Medical Toxicology Fellows In Training Board (formerly Medical Toxicology Fellows In Training Association) 2017-2018
- National Institute on Drug Abuse Mentored Training Award in Substance Use Science Dissemination administered by EMF 2017-2019 Board Member
- American College of Medical Toxicology Quality Measures Task Force (Screening for Opioid Use Disorder)
- American College of Medical Toxicology Fellow-In-Training MedTox Shark Tank Research Forum--First Place Overall--04/2018

--Outstanding Service Recognition - American College of Medical Toxicology 2021 03/2022

## **TEACHING ACTIVITIES**

### **Curriculum/ Course Development**

1. Medical Toxicology Elective Rotation at University of Pittsburgh Medical Center, 2017, 100 hours, staff and trainees.
2. Medical Toxicology Elective Rotation at University Hospitals Emergency Medicine Department, 2019, 100 hours, staff and trainees.

### **Invited Lectures**

#### **National**

University of Pittsburgh Medical Center Physician Services Division Annual Clinical Forum  
“Naloxone in Physician Practices” & “Inducing Buprenorphine in Physician Practices” 05/30/2018

American College of Medical Toxicology National Journal Club  
“Adjunctive Treatment of Alcohol Withdrawal” 07/10/2018

Western Pennsylvania Healthcare Information and Management Systems Society (HIMSS) Webinar: The Opioid Epidemic  
“Harm Reduction Works to Reduce Harms” 10/11/2018

Northern Ohio Healthcare Information and Management Systems Society (HIMSS) Fall Conference: The Role of Healthcare IT in Crisis, Epidemic, Disasters, & Large Events - “Using Technology for Harm Reduction”  
11/29/2018

Mayo Clinic Alix School of Medicine Medical Toxicology Interest Group  
“Opioids” 02/04/2020

North American Clinical Congress of Toxicology 2020  
Expert Panelist - AACT Acute Intensive Care Section Symposium 09/14/2020

University Hospitals Pain Management Institute FEAT: Fundamentals of Evolving Appropriate Treatment “Assessment of Substance Use Disorders in Routine Clinical Practice” 2/3/2021 & 2/17/2021  
“Tapering Opioids” 12/2/2020

Public Health Institute & University Hospitals National Opioid Leadership Summit  
2020 “Non-traditional Locations of Care: the Emergency Department” 12/9/2020  
“Peer Support & Peer Navigators” 12/8/2020

University of Iowa Carver College of Medicine  
“Introduction to Harm Reduction” 3/8/2021

Ohio State University Drug Enforcement & Policy Center and Drug Policy Alliance Combined  
Symposium: Prioritizing Science over Fear: An Interdisciplinary Response to Fentanyl Analogues “The Public Health Consequences of Classwide Scheduling” 3/16/2021

Metro Life Flight Symposium  
“Toxicology 101: Toxidromes” 4/27/2021

“Fear, Loathing & Falsehoods in the Age of Fentanyl: Opioid Epidemic Myths” 5/2/2019

Executive Links Continuing Education Workshops for Healthcare Professionals

“Fentanyl Beyond Fear & Loathing: Contextualizing Our Fentanyl Overdose Crisis” 5/13/2021

North American Congress of Clinical Toxicology Annual Conference Pre-Symposium

"Unclean Cleanses and Toxic Detoxes" 10/14/2021

Ohio Society of Addiction Medicine Annual Meeting

"Psychedelic Medicine" 10/15/2021

Project ECHO (Extension for Community Healthcare Outcomes) HARM (Hepatitis, Addiction, Reducing stigma in Medicine) Series presented by Louisiana Department of Health & Ochsner Health

“Buprenorphine” 12/15/2021

Society of Forensic Toxicologists Annual Meeting 2022

“Beyond Fear & Loathing: Contextualizing Our Fentanyl Overdose Crisis” 10/31/2022

“Are We Failing the Opioid Test? Opioids, Testing & Limitations” 11/1/2022

Eagle County Colorado Critical Care Paramedic Service Education Series

“Common Opioid Myths & What the Evidence Says” 12/20/2022

University of Missouri Department of Emergency Medicine Grand Rounds ALTO (Alternatives to Opioids)

“Looking to the Future of Buprenorphine in Practice” 3/9/2023

American College of Medical Toxicology Annual Scientific Meeting 2023 “Making Social Media Nontoxic to Toxicologists” April 2, 2023

## **Regional**

Ohio ACEP EM Residents’ Connect 2020

“Advocacy in the age of social media” 08/13/2020

Society for Academic Emergency Medicine Midwest Conference 2020

“Addressing Opioid Use Disorder in the Emergency Department” 9/23/2020

University Hospitals Rainbow Babies & Children’s Hospital Cardiothoracic Intensive Care Case Conference “A case of combined digoxin, beta blocker & sulfonylurea toxicity” 4/27/2021

University of Pittsburgh Medical Center Department of Physical Medicine & Rehabilitation Grand Rounds

“Opioids” 5/12/2021

Philadelphia Combined Emergency Medicine Residencies City Wide Medical Toxicology Day

2021 “Toxic Misinformation” 9/22/2021

Ohio College of Emergency Physicians “Introduction to Medical Toxicology Fellowships”

3/10/2023

MetroHealth Office of Opioid Safety Spring Conference 2023: Changing the Tide of the Opioid Crisis “Improving Access to Buprenorphine” 5/1/2023

## **Grand Rounds**

University of Pittsburgh Medical Center Emergency Medicine Education Conference Lectures:

1. "Case of the Month: Cutaneous Manifestations of Emphysematous Pyelonephritis" 08/31/2015
2. "Talking Bodies: Foreign Body Management in the ED" 9/3/2015
3. "Case of the Month: A Really Wilde Case – Lady Windermere Syndrome" 10/6/2015
4. "CT of the Month: Iatrogenic Right Ventricular Air Embolus During Contrast Injection" 3/1/2016
5. "Is Pepsi Ok? Questioning the Management of Cocaine Cardiotoxicity" 08/04/2016
6. "Morbidity and Mortality" 01/09/2017
7. "Case of the Month: Pediatric Brain Abscesses Misdiagnosed as Dextromethorphan Toxicity" 02/07/2017
8. "Wellness for the Emergency Medicine Resident" 03/07/2017
9. "Toxicology Core Content – Alcohols & Toxic Alcohols" 12/14/2017
10. "How to Die Naturally in Western Pennsylvania Parts I & II" 05/10/2018

University of Pittsburgh Medical Center Wilderness Medicine Grand Rounds  
 "Wild Mushrooms" 09/27/2018

University Hospitals Cleveland Medical Center Pediatric Emergency Medicine Grand Rounds  
 "Pediatric Toxicologic Emergencies" 1/20/2021

University Hospitals Pain Management Institute 'Fundamentals of Evolving Appropriate Treatment' Conference Series  
 "Biases & Misconceptions in Medical Treatment of Substance Use" 03/04/2020 & 03/18/2020  
 "Preventing Overdose and Accessing Treatment for Patients with Chronic Pain and Opioid Use Disorder" 9/7/2022 & 9/21/2022

University Hospitals Cleveland Medical Center Emergency Medical Services Institute Grand Rounds "Chemical Weapons" 6/9/2020

University Hospitals Cleveland Medical Center Dept of Internal Medicine Morbidity & Mortality Case Conference  
 "Lithium Toxicity" 9/18/2020  
 "Superwarfarin Ingestion" 4/3/2020  
 "Methemoglobinemia" 7/22/2022

University Hospitals Cleveland Medical Center Dept of Internal Medicine Grand Rounds  
 "Buprenorphine 101: It's Easier Than You Think" 11/24/2020

University Hospitals Cleveland Medical Center Dept of Psychiatry Morbidity & Mortality Case Conference  
 "Alcohol Withdrawal" 5/21/2021

University Hospitals Cleveland Medical Center Department of Family Medicine Grand Rounds  
 "The Opioid Epidemic" 8/25/2021

University Hospitals Cleveland Medical Center Pulmonary & Critical Care Fellowship Conference  
 "Revisiting Alcohol Withdrawal" 9/15/2021

Cleveland Clinic Department of Pediatric Hospital Medicine  
 "Lead Toxicity: Diagnostics, Clinical Implications and Treatment" 3/1/2022

University Hospitals Rainbow Babies and Children's Hospital Morbidity, Mortality and Improvement Conference  
 "Acetaminophen Toxicity" 8/9/2022

University Hospitals Cleveland Medical Center Dept of Psychiatry Grand Rounds “Buprenorphine Revisited”  
8/26/2022

University Hospitals Emergency Medicine Quality Network “Abortifacient Toxicity” 10/25/2022

Ongoing: University Hospitals Cleveland Medical Center Emergency Medicine Conference Lectures:

“Emergency Medicine Toxicology Board Review” 12/2019

“Toxic Alcohols” 10/2019

“Clinical Pathologic Case” 3/2020

“Addressing Our Biases And Better Treating Substance Use Disorders” 3/2020

“Toxidromes” 7/2020

“Toxicology of the Opioid Epidemic” 8/2020

“Social Determinants of Health” 11/2020

“Tricyclics: Structurally Unsound” 4/2021

“Words Matters: Patient-Centered Language” 4/2021

“Clinical Pathologic Case” 5/2021

“Buprenorphine 101” 5/2021

“Approach to the Intoxicated Patient” 7/21

“Recognizing and Minimizing Biases in Emergency Medicine” 7/2021

“Alcohols: Metabolism & Toxicity” 7/2021

“Is the Future of Medicine Psychedelic?” 3/2022

“Cocaine Toxicity: What’s Real?” 3/2022

“Approach to the chief complaint of “dizziness” in the age of fentanyl” 3/2022

“Acetaminophen toxicity made ridiculously simple” 12/2022

“Patient Centered Language” March 15, 2023

“Tricyclics and beyond” March 29, 2023

### **Teaching Activities**

University Hospitals Emergency Medicine Residency Core Faculty 7/1/2019-Present

Pittsburgh Poison Center Clinical Specialist in Poison Information Orientation 2017-2019

### **RESEARCH / GRANT SUPPORT:**

Sponsor Agency and ID #	Ohio Department of Health & Grant ID Number: ODH Project Number 01830024IN0223
Title of Grant	Project DAWN (Deaths Avoided with Naloxone) at University Hospitals Cleveland Medical Center
Your Role if not PI	Co-Investigator
Percent Effort	0.5%
Percent Salary Support	0.5%
Start-End Dates	09/2020-09/2022

Sponsor Agency and ID #	National Institute of Health/National Institute of Drug Abuse
Title of Grant	Optimizing HEALing in Ohio Communities
Your Role if not PI	Co-Investigator
Percent Effort	0.5%
Percent Salary Support	0.5%
Start-End Dates	01/2021-12/31/2021

Sponsor Agency and ID #	National Institute of Drug Abuse (NIDA)
Title of Grant	Mentored Training Award in Substance Use Science Dissemination
Start-End Dates	2017-2019

Sponsor Agency and ID #	Pittsburgh Emergency Medicine Foundation
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Title of Grant	Research Grant 2017
Start-End Dates	2017
Sponsor Agency and ID #	2011 University of Pittsburgh School of Medicine
Title of Grant	Dean's Summer Research Merit Award
Start-End Dates	6/2011-8-2011
Sponsor Agency and ID #	National Institute of Health training grant (funded by National Institute of Diabetes and Digestive and Kidney Diseases)
Title of Grant	Training grant
Start-End Dates	06/2011

## **BIBLIOGRAPHY**

### **Peer Reviewed Articles**

1. Neal MD, Marsh A, **Marino R**, et al. Massive transfusion: an evidence-based review of recent developments. *Arch Surg*. 2012;147(6):563-71.
2. Neal MD1, Sodhi CP, Jia H, Dyer M, Egan CE, Yazji I, Good M, Afrazi A, **Marino R**, Slagle D, Ma C, Branca MF, Prindle T Jr, Grant Z, Ozolek J, Hackam DJ. Toll-like receptor 4 is expressed on intestinal stem cells and regulates their proliferation and apoptosis via the p53 up-regulated modulator of apoptosis. *J Biol Chem*. 2012;287(44):37296-308.
3. Barton DJ, **Marino RT**, Pizon AF. Multimodal analgesia in crotalid snakebite envenomation: A novel use of femoral nerve block. *Am J Emerg Med*. 2018;36(12):2340.e1-2340.e2.
4. Barton DJ, Shao S, **Marino RT**, Reichmeider A, Yanta JH, Pizon AF. Neurotoxic envenomation by the South African coral snake (*Aspidelaps lubricus*): A case report. *Toxicon*. 2019;159:38-40.
5. **Marino R**, Landau A, Lynch M, Callaway C, Suffoletto B. Do electronic health record prompts increase take-home naloxone administration for emergency department patients after an opioid overdose?. *Addiction*. 2019;114(9):1575-1581.
6. **Marino R**, Perrone J, Nelson LS, et al. ACMT Position Statement: Remove the Waiver Requirement for Prescribing Buprenorphine for Opioid Use Disorder. *J Med Toxicol*. 2019;15(4):307-309.
7. Sidlak AM, Koivisto KO, **Marino RT**, Abesamis MG. Serotonin toxicity from isolated bupropion overdoses. *Clin Toxicol (Phila)*. 2020;:1-3.
8. Sidlak AM, Abesamis MG, Shulman JA, **Marino RT**. Feasibility of Intermittent Hemodialysis in Metformin Toxicity With Shock. *J Emerg Med*. 2020;
9. Stolbach AI, Mazer-amirshahi M, **Marino R**, Nelson LS, Sugarman J. ACMT Position Statement: Off-Label Prescribing during COVID-19 Pandemic. *J Med Toxicol*. 2020;
10. Sidlak AM, **Marino RT**, Abesamis MG. Response to Comment on serotonin toxicity from isolated bupropion overdoses. *Clin Toxicol (Phila)*. 2021;59(1):87-88.
11. Sidlak AM, **Marino RT**, Van Meerbeke JP, Pizon AF. Single versus continued dosing of fomepizole during hemodialysis in ethylene glycol toxicity. *Clin Toxicol (Phila)*. 2021;59(2):106-110.
12. **Marino RT**, Sidlak AM. Hyperammonemia in acetaminophen toxicity. *Clin Toxicol (Phila)*. 2022 Jan;60(1):126-130.
13. **Marino RT**, Spyres M, Wiegand TJ, Babu KM, Stolbach A. ACMT Position Statement: Allow Optimal Treatment for Healthcare Professionals with Opioid Use Disorder. *J Med Toxicol*. 2022 Jan;18(1):71-73.
14. Sidlak AM, Trautman WJ, Lynch MJ, **Marino RT**. "Alcoholic Ketoacidosis: Review of Current Practice and Association of Treatments to Improvement." *Am J Ther*. 2022 Jul 1;29(4):481-483.

### **Invited, Non-Peer Reviewed**

1. ACMT Toxicology Visual Pearls: Drug-Induced QT Prolongation" Academic Life in Emergency Medicine Ryan Marino and Anthony Pizon 10/16/2017

<https://www.aliem.com/acmt-visual-pearls-drug-induced-qt-prolongation/>

2. “Research Analysis: Conclusions about 'moral hazard' of naloxone not supported by methodology” EMS1.com. Ryan Marino, Brian Fullgraf and Jeremiah Escajeda 3/21/2018  
<https://www.ems1.com/opioids/articles/378269048-Research-Analysis-Conclusions-about-moral-hazard-of-naloxone-not-supported-by-methodology/>
3. “EMS data sharing to combat the opioid epidemic” EMS1.com Zach Louderback, Jeremiah Escajeda and Ryan Marino 6/27/2018  
<https://www.ems1.com/embracing-the-data-revolution-in-ems/articles/385643048-EMS-data-sharing-to-combat-the-opioid-epidemic/>
4. “EMS data sharing to combat the opioid epidemic” EMS1.com Zach Louderback, Jeremiah Escajeda and Ryan Marino 6/27/2018  
<https://www.ems1.com/embracing-the-data-revolution-in-ems/articles/385643048-EMS-data-sharing-to-combat-the-opioid-epidemic/>
5. “When myths are more dangerous than reality: the falsehood of naloxone-induced aggression and assault” EMS1.com Ryan Marino and Jeremiah Escajeda 10/10/2019  
<https://www.ems1.com/naloxone/articles/when-myths-are-more-dangerous-than-reality-wD9Vqg95jP54YS8y/>
6. “COVID-19 Treatments: Separating Fact From Fiction” LifeApps Glen Pyle and Ryan Marino 5/8/2020  
<https://lifeapps.io/research/covid-19-treatments-separating-fact-from-fiction/>
7. “Hydroxychloroquine Toxicity” Academic Life in Emergency Medicine Mohammad Hagahmed, Ryan Marino and David Zimmerman 6/17/2020  
<https://www.aliem.com/hydroxychloroquine-toxicity/>
8. “Bold leadership needed to loosen Ohio’s COVID-19 vise” Cleveland.com/The Cleveland Plain Dealer Matthew Wellington and Ryan Marino 1/6/2021  
<https://www.cleveland.com/opinion/2021/01/bold-leadership-needed-to-loosen-ohios-covid-19-vise-matthew-w-wellington-and-ryan-marino.html>

### **Book & Book Chapters**

1. *Motivational Interviewing: A Guide for Medical Trainees* by Antoine Douaihy, MD, Oxford University Press, 2014 Contributing author – Chapter. 16: “Future Directions: an introduction to the future of MI in medical training”

### **Media Appearances & Coverage / Podcasts**

#### **Medical Education Podcasts**

1. “The SecondShift Podcast Episode 59: Who let the Fentanyl Dog out?” FlightBridgeED: The SecondShift Podcast 9/21/2019  
<https://www.flightbridgeed.com/index.php/secondshift-podcast/3-secondshift-podcast/486-episode-59-who-let-the-fentanyl-dog-out>
2. “Ryan Marino: Fentanyl Myths” The House of Pod: A Medical Podcast 11/20/2019  
<https://podcasts.apple.com/ca/podcast/episode-52-ryan-marino-fentanyl-myths/id1225096382?i=100045740092>
3. “Fentanyl Hysteria” Down East Emergency Medicine Podcast 11/24/2019  
<https://www.downeastem.org/downeastem/category/PODCAST>
4. “Feeling the Need to Detox? Here's the Real Truth” Healthy@UH Podcast 01/02/2020  
<https://www.uhhospitals.org/Healthy-at-UH/articles/2020/01/feeling-the-need-to-detox-heres-the-real-truth>

5. "Get The Facts About Vaccines with Dr. Ryan Marino" The Autism Dad Podcast 01/03/2020  
<https://www.theautismdad.com/2020/01/03/the-truth-about-vaccines-with-dr-ryan-marino-s3e1>
6. "Moral Hazards and Naloxone, A Toxicologist's Perspective" Narcotica Podcast 02/13/2020  
<https://narcocast.com/episode-36-moral-hazards-and-naloxone-a-toxicologists-perspective>
7. "Ryan Marino On Toxicology & Battling Disinformation" Explore The Space Show (Podcast) 03/06/2020  
<https://www.exploretthespaceshow.com/podcasting/ryan-marino-on-toxicology-battling-disinformation>
8. "COVID-19 and Alcohol Withdrawal Syndrome" American Society of Health-System Pharmacists Podcast 04/14/2020  
<https://www.ashp.org/Professional-Development/ASHP-Podcasts/COVID-19-Updates/COVID-19-and-Alcohol-Withdrawal-Syndrome>

### **Editorials**

1. "Dr. Ryan Marino: Chauvin trial defense rests after smearing George Floyd with false overdose theory" NBCNews Think April 16, 2021  
<https://www.nbcnews.com/think/opinion/chauvin-trial-defense-rests-after-smearing-george-floyd-false-overdose-ncna1264238>
2. "The weaponization of professionalism" KevinMD August 2, 2020  
<https://www.kevinmd.com/blog/2020/08/the-weaponization-of-professionalism.html>
3. Dr. Ryan Marino: Trump's inject disinfectant coronavirus tips don't match up with the science" NBCNews Think April 26, 2020  
<https://www.nbcnews.com/think/opinion/trump-s-inject-disinfectant-coronavirus-tips-don-t-match-science-ncna1192356>
4. "Dr. Ryan Marino: Covid trends like ivermectin are deadly distractions. Why can't we stop them?" NBCNews Think August 28, 2021  
<https://www.nbcnews.com/think/opinion/covid-trends-ivermectin-are-deadly-distractions-why-can-t-we-ncna1277830>
5. "Fear, Loathing & Fentanyl Misinformation" MedPage Today November 4, 2022  
<https://www.medpagetoday.com/opinion/second-opinions/101577>
6. "Perfect Is the Enemy of Good, and So Is Narcan Misinformation" MedPage Today May 8, 2023  
<https://www.medpagetoday.com/opinion/second-opinions/104396>

### **Abstracts**

American College of Medical Toxicology Annual Scientific Meeting, Huntington Beach, CA 03/2016  
*Rapid development of extreme leukemoid reaction following amlpodipine overdose*  
 Marino RT, Phillips TM, Yanta JH

North American Congress of Clinical Toxicology, Boston, MA 09/2016  
*Rapid and complete cardiovascular collapse following Crotalus horridus envenomation*  
 Marino RT, Furlani NM, Phillips TM, Yanta JH

American College of Medical Toxicology Annual Scientific Meeting, San Juan PR 03/2017  
*Varying contribution of ethanol to serum osmolality in acute intoxication*  
 Marino RT, Phillips TM, Pizon AF

North American Congress of Clinical Toxicology, Vancouver, BC 10/2016  
*Persistent Prolongation Of QT Interval And QRS Secondary to Loperamide Toxicity*  
 Marino RT, Shulman JA, Pizon AF

*Laboratory Confirmed Intravenous Carfentanil Exposure Requiring Naloxone Infusion*

Nunnally BB, Marino RT, Shulman JA, Lynch MJ

*Intrathecal Bupivacaine and Morphine Toxicity Leading to Transient Neurogenic Shock and Delayed Status Epilepticus*

Sidlak AM, Zyznewsky EL, Marino RT, Shulman JA, Lynch MJ, Yanta JH

American College of Medical Toxicology 2017 Seminar in Forensic Toxicology, Philadelphia, PA 12/2017

*Postmortem Analysis of Carfentanil-Associated Overdose Deaths*

Marino RT, Mohny SH, Lynch MJ

*Laboratory Confirmed Intravenous Carfentanil Exposure Requiring Naloxone Infusion*

Nunnally BB, Marino RT, Shulman JA, Lynch MJ

American College of Medical Toxicology Annual Scientific Meeting, Washington, DC 04/2018

*Prolonged Methyphenidate Toxicity Treated with Continuous Dexmedetomidine Infusion*

Marino RT, Scoccimarro AD, Abesamis MG, Yanta JH.

*Substantial Iatrogenic Fomepizole Overdose Without Associated Adverse Events*

Marino RT, Scoccimarro AD, Shulman JA

*Serotonin Toxicity From Isolated Paroxetine and Hydroxyzine Overdose*

Marino RT, Scoccimarro AD, Pizon AF

*Central Nervous System Excitation and Metabolic Acidosis As Delayed Presentation of Gabapentin Overdose*

Marino RT, Scoccimarro AD, Shulman JA, Abesamis MG

*Serotonin Toxicity in Massive Loperamide Ingestion*

Scoccimarro AD, Marino RT, Shulman JA

*Misinterpretation of Loperamide Artifact as a Haloperidol Metabolite in Four Cases of Loperamide Ingestion*

Scoccimarro AD, Marino RT, Shulman JA

*Mass Hydrogen Sulfide Poisoning At A Coal-Fired Power Plant*

Micciche AF, Farkas AN, Marino RT, Abesamis MG

*Altered Mental Status Due to Accidental Ingestion of 5F-ADB in a Pediatric Patient*

Charek MF, Scoccimarro AD, Marino RT, Shulman JA

*Severe Treatment-Refractory Cardiotoxicity Secondary to Chronic Loperamide Use*

Christie MM, Shao S, Scoccimarro AD, Marino RT, Shulman JA

American College of Emergency Physicians Scientific Assembly, San Diego, CA 10/2018

*Increasing Utilization of Take Home Naloxone Program for At-Risk Emergency Department Patients using Computerized Clinical Decision Support*

Marino RT, Lynch MJ, Suffoletto BP

North American Congress of Clinical Toxicology, Chicago IL 10/2018

*Lance-Adams Syndrome Resulting from an Unintentional Heroin Overdose*

Marino RT, Scoccimarro AD, Van Meerbeke JP, Abesamis MG, Shulman JA

*Massively Elevated Plasma Titanium Levels Without Systemic Toxicity*

Marino RT, Scoccimarro AD, Pizon AF

*Morphine Therapy Leading to Profound Thrombocytopenia*

Marino RT, Scoccimarro AD, Shulman JA, Yanta JH

*The Effect of Plasmapheresis on the Elimination Half-Life of Colchicine in a Case of Fatal Overdose*

Scoccimarro AD, Marino RT, Yanta JH, Shulman JA

*Toxic Leukoencephalopathy Following Intravenous Exposure to Nonpharmaceutical Fentanyl and Fentanyl Derivatives*

Micciche AF, Marino RT, Scoccimarro AD, Shulman JA, Yanta JH

*Hypertonic Sodium Bicarbonate in Subacute Flecainide Toxicity*

Scoccimarro AD, Marino RT, Abesamis MG

*Fatal Hypermagnesemia Secondary to Chronic Epsom Salt Ingestion*

Scoccimarro AD, Marino RT, Abesamis MG

*Cranial dystonia as a complication of reversal of anticholinergic syndrome with physostigmine in a polysubstance overdose patient*

Scoccimarro AD, Marino RT, Whiteford JR, Abesamis MG

American College of Medical Toxicology Annual Scientific Meeting, San Francisco, CA 04/2019

*Complete Cardiovascular Collapse After DigiFab Reversal in Chronic Digoxin Toxicity*

Marino RT, LaFountain NB, Micciche AF, Charek MF, Shulman AJ

*Antimuscarinic Toxicity Secondary to Lupini Bean Consumption Requiring Physostigmine*

Marino RT, McCormack RT, Giannoutsos SS, Tamama KJ, Yanta JH

*Neurotoxic Envenomation By The Angolan Coral Snake, *Aspidelaps lubricus cowlesi**

Marino RT, Barton DJ, Shao S, Scoccimarro AD, Sidlak AM, Yanta JH, Pizon AF

*Evaluating the Need For DigiFab Therapy In Chronic Digoxin Toxicity* (moderated poster)

LaFountain NB, Marino RT, Abesamis AG

*Five Patients with Refractory Shock Secondary to Metformin Toxicity Successfully Treated with Intermittent Hemodialysis*

Sidlak AM, Shulman JA, Abesamis MG, Marino RT

*Comparison of Outcomes Between Extracorporeal Elimination Techniques in Metformin Associated Lactic Acidosis Related to Chronic Metformin Use*

Shulman JA, Scoccimarro AD, Marino RT, Sidlak AM, Lynch MJ, Pizon AF, Shao S, Yanta JH, Abesamis MG

*Smoking the Headlines: Recurrent Carboxyhemoglobinemia with Polycythemia*

Sidlak AM, Marino RT, Pizon AF, Scoccimarro AD, Shao S, Lynch MJ

*Getting High at What Cost? Case Series of 3-MeO-PCP Intoxication in a Single Patient*

Sidlak AM, Marino RT, Scoccimarro AD, Shao S, Shulman JA

*Falsely Elevated Salicylate Level in the Setting of Hyperlipidemia*

Shao S, Marino RT, Scoccimarro AD, Sidlak AM, Abesamis MG

European Association of Poisons Centres and Clinical Toxicologists Congress, Naples, Italy 05/2019

*Recreational ingestion of a compounded topical analgesic presenting with coma and cardiotoxicity*

Marino RT, Sidlak AM, Lynch MJ

*Self-inflicted severe genital friction burns secondary to hypersexual response from synthetic cathinone and cocaine use*

Shao S, Marino RT, Shulman JA, Abesamis MG

*A case of etizolam withdrawal syndrome*

Scoccimarro AD, Marino RT, Shulman JA

*“Rhino 7”-induced priapism leading to penile fibrosis complicated by delirium tremens*

Scoccimarro AD, Marino RT, Shulman JA

*False positive acetaminophen concentration due to parenteral acetaminophen administration in a dual port intravenous line*

Scoccimarro AD, Marino RT, Pizon AF

*Fluoxetine-induced seizure in a pediatric patient*

Scoccimarro AD, Marino RT, Pizon AF

North American Congress of Clinical Toxicology, Nashville, TN 09/2019

*Severe Cardiotoxicity and Hypocalcemia from Chronic Inhalation of 1,1-Difluoroethane*

Sidlak AM, Marino RT, Shao S, Scoccimarro AD, Yanta JH, Shulman JA

*Overdose on First FDA Approved Deuterated Pharmaceutical*

Sidlak AM, Marino RT, Shao S, Scoccimarro AD, Yanta JH

*Patiromer as a Novel Adjunctive Therapy for Refractory Hyperkalemia in Intentional Potassium Chloride Overdose*

Shao S, Marino RT, Scoccimarro AD, Sidlak AM, Shulman JA

*Amitriptyline Overdose with Refractory Ventricular Dysrhythmias Rescued by Intralipid Emulsion Therapy*  
Shao S, Marino RT, Scoccimarro AD, Sidlak AM, Yanta JH  
*Lytes Out: Massive Melatonin Overdose with Resulting Profound Hyponatremia*  
Shao S, Marino RT, Scoccimarro AD, Abesamis MG  
*Methylphenidate Associated Peripheral Vasculopathy in a Teenager with Rapid Recrudescence after Dosing Error*  
Sidlak AM, Shao S, Scoccimarro AD, Marino RT, Shulman JA  
*Primed for Danger: Dermal Burns from Methacrylic Acid*  
Singer JL, Shao S, Schweiberger KA, Marino RT, Scoccimarro AD, Sidlak AM, Shulman JA

American College of Medical Toxicology Annual Scientific Meeting, New York, NY 03/2020  
*Testing the accuracy of a commercially available breathalyzer used by law enforcement*  
Marino RT, Sidlak AM, Pizon AF.  
*Osmolal gap: an inaccurate test*  
Marino RT, Sidlak AM, Pizon AF.  
*Treatment of Acute Methadone Overdose with Buprenorphine Induction*  
Sidlak AM, McCausland JB, Marino RT  
*Crotalus horridus Envenomation Complicated by Persistent Thrombocytopenia Despite Antivenin Therapy with Crotalidae Polyvalent Immune Fab and Crotalidae Immune F(ab')<sub>2</sub>*  
Shao S, Marino RT, Micciche AF, Sidlak AM, Westover RC, Yanta JH, Abesamis MG, Pizon AF  
*Single versus Continued Dosing of Fomepizole during Hemodialysis for Ethylene Glycol Poisonings*  
Sidlak AM, Van Meerbeke JP, Marino RT, Pizon AF  
*Progression to Delirium Tremens Despite High Dose Phenobarbital Taper*  
Sidlak AM, Singer JL, Marino RT, Scoccimarro AD, Shao S, Abesamis MG  
*A Retrospective Analysis of Serotonin Toxicity with Bupropion Overdose*  
Koivisto KO, Shulman JA, Marino RT, Abesamis MG, Sidlak AM

American College of Medical Toxicology Annual Scientific Meeting, 04/2021  
*Lithium Neurotoxicity: SILENT but Deadly*  
Ems R, Marino RT  
*Alcoholic Ketoacidosis: Analysis of Current Management*  
Sidlak AM, Trautman WJ, Marino RT, Lynch MJ  
*Role of High-Dose Folic Acid in Methanol Toxicity*  
Scanlon MP, Marino RT, Sidlak AM

American Thoracic Society International Conference 05/2021  
*Metformin Toxicity Successfully Treated with Intermittent Hemodialysis Despite Shock State*  
Dugan JP, Walker JR, Kartha L, Marino RT, Teba CV

American College of Medical Toxicology Annual Scientific Meeting, 03/2022  
*Micro-dosing Buprenorphine in a Patient Chronically on High-dose Fentanyl and Morphine*  
Raleigh Ems MD, Lauren Porter DO, Ryan Marino MD  
*Micro-dosing Buprenorphine in Patients on Full-Agonist Opioids: A Case Series*  
Lauren Porter DO, Bryan Ross MD, Ryan Marino MD

North American Congress of Clinical Toxicology, San Francisco, CA 09/2022  
*Self-Treatment of Gastrointestinal Side Effects from Off-Label Ivermectin Use with Oral Sodium Bicarbonate Causing Gastric Perforation and Profound Electrolyte Derangement*  
Anna Williams MD, Ryan Marino MD

American College of Medical Toxicology Annual Scientific Meeting, San Diego, CA 03/2023  
*Acute Fentanyl Overdose in Pediatric Chronic Opioid Users with Subsequent Buprenorphine Induction and Maintenance Therapy*  
Ross BJ, Marino RT, Porter LM

*QRS Prolongation Associated with Escitalopram Overdose*

Ross BJ, Marino RT, Porter LM, Offutt LH

*Elevated Serum and Urine Cobalt Concentrations Associated with Hydroxycobalamin Administration*

Ross BJ, Marino RT, Porter LM