

Oregon Health & Science University
Portland, OR July 2018 – June 2020

Kings County & Downstate Hospital
Brooklyn, NY July 2014 – June 2018

**State University of New York
Downstate College of Medicine**
Brooklyn, NY 2014 May

**New York University
Graduate School of Arts and Science**
Manhattan, NY 2010 May

**New York University
College of Arts and Science**
Manhattan, NY 2009 May

EDUCATION & POST GRADUATE TRAINING

Fellowship in Medical Toxicology

Inpatient toxicology service with over 200 bedside consults annually. Poison center catchment area includes Oregon, Alaska, Utah, and Guam with over 50,000 annual calls.

Education Scholars Program

One-year longitudinal faculty development program in education scholarship & curriculum design.

Residency in Emergency Medicine

Four-year categorical EM residency.
Kings County Hospital: Public inner-city Level I Trauma center with over 100,000 adult and 30,000 pediatric annual ED visits and 600 beds. Seventh busiest American emergency department in 2017.
University Hospital of Brooklyn: Tertiary care Transplant, Dialysis, Stroke, Cardiac center with 70,000 annual ED visits and 400 beds.
NYU Langone Hospital in Brooklyn: Community Level I Trauma, Stroke, Cardiac center with 70,000 annual ED visits and 400 beds.
Toxicology electives at New York City and Oregon Poison Centers.

Doctor of Medicine

Master of Arts

World History

Bachelor of Arts

Major in History, Cum Laude. Minors in Classics and Chemistry.

Oregon Health & Science University
Department of Emergency Medicine
Portland, OR July 2018 – Present

Portland VA Medical Center
Department of Emergency Medicine
Portland, OR July 2018 – Present

PROFESSIONAL MEDICAL EXPERIENCE

Attending Physician in Emergency Department
Tertiary Level 1 Trauma, Comprehensive Stroke, Transplant, Dialysis,
and Cardiac center with 50,000 ED visits and 550 beds.

Attending Physician in Emergency Department
U.S. Federal Department of Veterans Affairs Stroke, and Cardiac center
with 30,000 ED visits.

PROFESSIONAL SOCIETY MEMBERSHIPS

American College of Medical Toxicology – ACMT
American Academy of Clinical Toxicology – AACT
Oregon Mycological Society – OMS
Oregon Medical Association – OMA

LICENSES & CERTIFICATIONS

ABEM – Certified by the American Board of Emergency Medicine
OMB – Oregon Medical Board License
DEA – Drug Enforcement Administration License
HMTT – Certification in Hyperbaric Medicine Team Training
ATLS – Advanced Trauma Life Support
ACLS – Advanced Cardiac Life Support
PALS – Pediatric Advanced Life Support
BLS – Basic Life Support

HONORS & AWARDS

<u>Kings County Hospital</u> Brooklyn, NY	2018	June	Research Division Award Toxicology Division Award Toxicology Mini-Fellowship Award Simulation Mini-Fellowship Award
<u>Downstate Medical College</u> Brooklyn, NY	2014	May	Alpha Omega Alpha Honors Society Gold Humanism Honors Society Jakway Award for Anatomy Education Academic Development Award for Excellence in Leadership and Teaching
<u>New York University</u> Manhattan, NY	2009	May	Phi Alpha Theta History Honors Society Founder's Day Award
	2008	May	Dean's List
	2007	May	Dean's List

Oregon Health & Science University
Department of Emergency Medicine
Portland, OR July 2018 - Present

**American Association of
Poison Control Centers**
January 2019 - Present

Kings County & Downstate Hospital
Department of Emergency Medicine
Brooklyn, NY July 2014 – June 2018

ACADEMIC LEADERSHIP EXPERIENCE

Clinical Assistant Instructor

Bedside teaching for residents & students while providing patient care.
Cadaver lab procedure day, disaster drill day, transvenous pacemaker placement, advanced airway instructor.

Toxicology Podcast Producer

Recorded & Managed the Oregon Poison Center Journal Club podcast with over 1,000 downloads.
Podcast available on [iTunes](#), [Google Play](#), and [Sound Cloud](#)

National Poison Data System Fatality Reviewer

Reviewed case fatalities reported to the national poison data system registry. Reviews are compiled into abstracts, providing data for epidemiological analysis of poisoning deaths and the NPDS annual report.

Course Instructor

Taught the following courses for junior residents, MD & PA students: peripheral IVs, phlebotomy, suturing, Seldinger technique, diagnostic ultrasound, pericardiocentesis, IO infusion, resuscitative thoracotomy.

Clinical Assistant Instructor

Bedside teaching for students while providing patient care.
“Pre-attending” role as preceptor for junior residents.

CURRICULUM DESIGN

**Oregon Health & Science University
Department of Emergency Medicine**
Portland, OR February 2019 – Present

QRunner & ToxRunner
Brooklyn, NY October 2013 – Present

**Kings County & Downstate Hospital
Department of Emergency Medicine**
Brooklyn, NY July 2014 – June 2018

**State University of New York
Downstate College of Medicine**
Brooklyn, NY June 2011 – May 2014

Toxicology Simulation Curriculum Developer
Developed and ran weekly simulation sessions for residents and medical students with emphasis on diagnosis & management of poisoned patients, procedures, critical care, communication, and teamwork.

Software Developer
Developed the software platforms QRunner and ToxRunner, which provide USMLE style examinations for medical students and toxicology review questions for residents, respectively
www.ToxRunner.net

Emergency Medicine Video Lecture Series
Received funds and equipment from Emergency Medicine department to enhance resident education using videography.
Filmed weekly academic lectures and uploaded them to [YouTube](https://www.youtube.com).
Viewership is international. Over 100,000 views.
Filmed All NYC EM Conference and NYC ACEP.
Created medical student education videos.
Created several procedure videos.

Medical Simulation Mini Fellowship
Filmed weekly simulation sessions to provide residents with feedback on performance
Assisted with weekly case debriefings
Simulation curriculum & case design

Toxicology Mini Fellowship
Curriculum design
Organophosphates and the Assassination of Kim Jong-nam
Cyanide Antidotes and the Jonestown Massacre
Naloxone and the Moscow Theater Hostage Crisis
Snake Oil Poisoning and Medical Quackery

Creator of the Downstate Video Atlas of Anatomy
Created almost 40 educational videos profiling various anatomical regions. The videos are used by MD, PA, and OT students on the university's intranet.
A DVD with videos is available on request.

PEER-REVIEWED PUBLICATIONS

Clinical Toxicology

DOI: [10.1080/15563650.2019.1657883](https://doi.org/10.1080/15563650.2019.1657883)

August 2019

Clinical Toxicology

DOI: [10.1080/15563650.2019.1609685](https://doi.org/10.1080/15563650.2019.1609685)

May 2019

Emergency Medicine

DOI: [10.12788/emed.2018.0094](https://doi.org/10.12788/emed.2018.0094)

June 2018

Journal of Medical Toxicology

DOI: [10.1007/s13181-017-0636-2](https://doi.org/10.1007/s13181-017-0636-2)

March 2018

4 | Methemoglobinemia Associated with Massive Acetaminophen Ingestion: A Case Series

Rianprakaisang T, **Blumenberg A**, Hendrickson RG

3 | A letter reporting a case of fatal ventricular dysrhythmia associated with the LSD analog AL-LAD

Blumenberg A, Hendrickson RG

2 | Sarcoidosis Resulting in Exsanguinating Esophageal Variceal Hemorrhage

Blumenberg A, Sharifali S, Sinert R

1 | Utility of 2-Pyridine Aldoxime Methyl chloride (2-PAM) for Acute Organophosphate Poisoning: A Systematic Review and Meta-Analysis

Blumenberg A, Benabbas R, Sinert R, DeSouza I, Wiener S, et al.

NON PEER-REVIEWED PUBLICATIONS

Medscape Drugs and Diseases

Updated May 2017

6 | Arsenic Toxicity

Blumenberg A, Wiener S

<http://emedicine.medscape.com/article/812953>

Medscape Drugs and Diseases

Updated November 2016

5 | Emergent Treatment of Alcoholic Ketoacidosis

Blumenberg A, Wiener S

<https://emedicine.medscape.com/article/765856-overview>

The Medical Dialog Review

April 2009 4:32-38

4 | Scientific and Religious Assessments of Physicality and Sexuality During the Middle Ages

Blumenberg A

The NYU Historian

April 2009 50:24-28

3 | Medieval Obstetrics, or How I Learned to Stop Worrying and Love the Womb

Blumenberg A

The Medical Dialog Review

April 2008 2:39-43

2 | The Continuity of Medieval Medical Knowledge

Blumenberg A

The NYU Historian

April 2008 49:20-28

1 | Logic and Intuition in Arabic Medicine

Blumenberg A

ABSTRACTS

Clinical Toxicology

DOI: [10.1080/15563650.2019.1636569](https://doi.org/10.1080/15563650.2019.1636569)

August 2019

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August 2019

Clinical Toxicology

DOI: [10.1080/15563650.2019.1598646](https://doi.org/10.1080/15563650.2019.1598646)

May 2019

Journal of Medical Toxicology

DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)

March 2019

Journal of Medical Toxicology

DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)

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Journal of Medical Toxicology

DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)

March 2019

20 | Acute Fluoride Toxicokinetics Modelled Via Electrolyte Disturbance Velocity in a Single Patient

Blumenberg A, Rudy C, Girardi F, McKeown N, Hendrickson RG

19 | Feasibility of Incorporating Medical Simulation into a Poison Center's Medical Toxicology Curriculum

Blumenberg A, Murphy L, Hughes A, Rianprakaisang T, Horowitz BZ, Hendrickson RG

18 | Shotgun pellet embolism to the right atrium with elevated blood lead concentrations

Hughes A, McKeown N, Rianprakaisang T, Murphy L, Blumenberg A, Hendrickson RG

17 | Toxic brain death mimics

Murphy L, Wolfer H, Blumenberg A, Rianprakaisang T, Hughes A, Hendrickson RG

16 | Misinterpretation of carbon monoxide reference range leading to mass public concern

Murphy L, Rianprakaisang T, Hughes A, Blumenberg A, Hendrickson RG

15 | Do patients die *with* or *from* metformin-associated lactic acidosis (MALA)? Systematic review and meta-analysis of pH and lactate as predictors of mortality in MALA

Wiener S, Benabbas R, Jeng A, Blumenberg A, Sinert R

14 | Case Report of the LSD Analog AL-LAD Associated with Ventricular Fibrillation and Death

Blumenberg A, Murphy L, Hughes A, Rianprakaisang T, Hendrickson RG

13 | HiddenPoisonNextDoor: Breaking News and its Effects on Poison Center Calls and Social Media Presence

Blumenberg A, Murphy L, Hughes A, Rianprakaisang T, Lopez A

12 | Case of somnolence due to ingestion of a liquid designer benzodiazepine

Murphy L, Blumenberg A, Hughes A, Rianprakaisang T, Hendrickson RG

11 | Sudden cardiac death in a bodybuilder

Murphy L, Blumenberg A, Rianprakaisang T, Hughes A, Hendrickson RG

10 | Clinical Course and Management of the Heroin Body Stuffer

Hughes A, Murphy L, Rianprakaisang T, Blumenberg A, Hendrickson RG

- Journal of Medical Toxicology**
DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)
March 2019
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DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)
March 2019
- Journal of Medical Toxicology**
DOI: [10.1007/s13181-019-00699-x](https://doi.org/10.1007/s13181-019-00699-x)
March 2019
- The FASEB Journal**
[26:529.15](https://doi.org/10.1096/faseb.2012042652915)
April 2012
- The FASEB Journal**
[25:495.3](https://doi.org/10.1096/faseb.201104254953)
April 2011
- 9 | Association of Ingested Dose and Severity of Toxicity in Heroin Body Stuffers.**
Hughes A, Murphy L, **Blumenberg A**, Rianprakaisang T, Hendrickson RG
- 8 | Predictors of Poisoning Severity in Diphenhydramine Overdose**
Hughes A, **Blumenberg A**, Murphy L, Rianprakaisang T, Hendrickson RG
- 7 | Does Co-Ingestion with Benzodiazepines Reduce the Rate of Seizures in Overdose? A Review of the Toxicology Investigators Consortium Database.**
Rianprakaisang T, Prather C, **Blumenberg A**, Murphy L, Hughes A, Hendrickson RG
- 6 | Rates of Serotonin Toxicity and Factors Associated with Seizures in SNRI Overdose: a Review of the Toxicology Investigators Consortium Database.**
Rianprakaisang T, Prather C, Murphy L, **Blumenberg A**, Hughes A, Hendrickson RG
- 5 | A Case of Fatal Acetaminophen Ingestion Associated with Methemoglobinemia**
Rianprakaisang T, Hughes A, **Blumenberg A**, Murphy L, Hendrickson RG
- 4 | Serum and Urine Detection of Phenibut: A Pharmacokinetic Analysis**
Rianprakaisang T, Moss M, **Blumenberg A**, Hughes A, Murphy L, Hendrickson RG
- 3 | A Case of Pediatric AB-FUBINACA Toxicity from a Commercially Produced CBD Product**
Rianprakaisang T, Hughes A, Murphy L, **Blumenberg A**, Hendrickson RG
- 2 | The Downstate Video Atlas of Anatomy, A Project Powered by Dyad Pedagogy**
Blumenberg A and Marquez S
- 1 | Dyad Pedagogy and the Application of Video Education to Anatomy**
Blumenberg A and Marquez S

POSTER PRESENTATIONS

NACCT Annual Conference Nashville, TN 2019 September	6 Acute Fluoride Toxicokinetics Modelled Via Electrolyte Disturbance Velocity in a Single Patient' accepted for Poster presentation
NACCT Annual Conference Nashville, TN 2019 September	5 Feasibility of Incorporating Medical Simulation into a Poison Center's Medical Toxicology Curriculum
ACMT Annual Scientific Symposium San Francisco, CA 2019 April	4 Case Report of the LSD Analog AL-LAD Associated with Ventricular Fibrillation and Death (In absentia)
ACMT Annual Scientific Symposium San Francisco, CA 2019 April	3 HiddenPoisonNextDoor: Breaking News and its Effects on Poison Center Calls and Social Media Presence (In absentia)
Experimental Biology Conference San Diego, CA 2012 April	2 The Downstate Video Atlas of Anatomy, A Project Powered by Dyad Pedagogy
Experimental Biology Conference Washington DC 2011 April	1 Dyad Pedagogy and the Application of Video Education to Anatomy

MEDIA EXPERT CONSULTATION

KATU ABC Channel 2 News Portland, OR 2019 August	5 Television Interview about Acute Lung Injury and Vaping
The Statesman Journal Salem, OR 2019 August	4 Background Information on Cannabinoid Hyperemesis Syndrome
American Chemical Society & PBS Portland, OR 2019 July	3 Web Video Educating Public on Overdoses
The Register-Guard Newspaper Eugene, OR 2019 July	2 Background Information on Kratom
Jonathan Kauffman, Author Portland, OR 2019 June	1 Background Information on Environmental Toxins

Brief Lectures

Oregon Poison Center: Tox Simulation Debrief

Portland, OR	2019	October	40 Wound Botulism
			39 Organophosphate Poisoning
		September	38 Naloxone Dosing
			37 Shock in Cyanide Toxicity
		August	36 Titrating Atropine in Organophosphate Toxicity
			35 Shock Management in Iron Toxicity
		June	34 Diagnosis of Infantile Botulism
			33 How to Perform an Infant Needle Cricothyrotomy
			32 Alternative Antidotes for Atropine Shortage
			31 Intralipid Rescue
			30 Differential Diagnosis of Status Epilepticus
			29 Cyanide Antidotes
		May	28 Subtleties in Diagnosing Iron Poisoning
			27 Management of Torsade de Pointes
			26 Altered Mental Status in Aspirin Poisoning
			25 Tailoring Naloxone Dose
			24 Pre-intubation Oxygenation Optimization
		April	23 Isoniazid Toxicity
			22 Airway & Ventilator Management in Acidemia
			21 Safely Escalating Benzodiazepines in Alcohol Withdrawal
			20 Rapid Cooling Techniques in Hyperthermia
		March	19 High Dose Insulin Therapy for Calcium Channel Blocker Toxicity
			18 Benzodiazepine Refractory Status Epilepticus
			17 Hydrofluoric Acid and Electrolyte Disturbances
			16 Malathion Poisoning
			15 Opiates, Naloxone, and ARDS
			14 Acute Iron Toxicity
			13 Ethylene Glycol Poisoning
		February	12 Burns: Cyanide and Carbon Monoxide Toxicity
			11 Salicylate Toxicity
			10 Sympathomimetics and Hyperthermia

Kings County Hospital: Morning Report

Brooklyn, NY	2018	June	9 Neurogenic Respiratory Failure
		April	8 Emergencies Related to Sexual Activity
		February	7 Diagnosing Death
		January	6 Pediatric Phosphide Poisoning
	2017	December	5 Uno Card Triage Simulation
		October	4 Organophosphate Mass Casualty Incident
		September	3 Complications of Massive Transfusion
		August	2 Palliative Care in the Emergency Department
		July	1 Renal Failure and Emergency Hemodialysis

ACADEMIC PODCAST EPISODES

Oregon Poison Center Podcast		Available on iTunes , Google Play , and Sound Cloud
2019	August	9 LSD: 50 Years after Woodstock
	June	8 Spiders and Scorpions
	March	7 Emerging Research on Toxicity of Antibiotics
	February	6 Up in Smoke: Tobacco, Vaping, and Marijuana
	January	5 Cobinamide
2018	October	4 Aspirin
	September	3 Lead and Chelation
	August	2 Caustic Injuries
2017	August	1 Sugammadex

ACADEMIC BLOG POSTS

ClinicalMonster.com		Available on blog.clinicalmonster.com/author/ablumenberg
2017	May	12 Clinical CT: Hepatic Congestion in CHF
	April	11 ED Management of Spontaneous Human Combustion (April Fool's Day)
	January	10 Clinical CT: Abdominal Aortic Aneurysm
2016	November	9 Toxicology Mystery Case: Wound Botulism
	October	8 Toxicology Mystery Case: Citrate Toxicity
	October	7 Clinical CT: Subarachnoid Hemorrhage
	September	6 Toxicology Mystery Case: Insulin Overdose
	August	5 Clinical CT: Tibial Plateau Fracture
		4 Toxicology Mystery Case: Soy Sauce Toxicity
	June	3 Clinical Ultrasound: Testicular Torsion
2015	August	2 Lateral Canthotomy & Cricothyrotomy,
	July	1 Suturing

LANGUAGES

Serbo-Croatian: Conversational
Spanish: Rudimentary
Latin: Written

HOBBIES & INTERESTS

Cooking
Urban Hiking
Thrift Stores
Filmmaking
Photography
Travel
Reading
Movies
History
Science Fiction

