



REGISTER NOW

FOURTH ANNUAL TOXICOLOGY EDUCATION DAY

Feb. 19, 2021

THIS EVENT WILL BE HELD ENTIRELY ONLINE

Attendance links will be emailed to attendees prior to the program.

Earn up to 8.00 AMA PRA Category 1 Credits™

This activity is eligible for 8.0 contact hours of ACPE credit.

**This program has been approved for 8 hours of state-approved
pre-hospital personnel CME.**

**Oklahoma Board of Nursing approval of Pharmacology continuing education
units are pending application approval.**

OU Medicine, Inc. is a provider of nursing continuing professional development.

**More information and registration at
cme.ouhsc.edu**





Program Overview and Target Audience

The Fourth Annual Toxicology Education Day is a single-day conference geared toward health care professionals involved in the care of patients with overdoses, envenomations, or other exposures. This includes emergency medicine, critical care, family medicine, and internal medicine physicians and mid-level providers, pediatricians, pharmacists, nurses and pre-hospital providers. The activity will take place virtually online. Topics delivered by experts in the fields of toxicology, emergency medicine and critical care include: an approach to the poisoned patient, riot control agents, toxicologic causes of hyperthermia, medical marijuana and over-the-counter CBD products for chronic pain, aspirin overdoses, bites and stings, and toxicant-related lung injuries. The conference will include a multidisciplinary roundtable in which several health care providers will discuss a very hypotensive patient and will finish with an interactive high-yield board review session.

Planning Committee

Kristie Edelen, Pharm.D., D.A.B.A.T. – Course Director
Scott Schaeffer, R.Ph., D.A.B.A.T. – Course Director
Ryan Brown, M.D., F.A.A.P. – Medical Director
Victoria Chiang, Pharm.D. Candidate
Cassidy Roberts, M.B.A.
Susie Dealy, M.Ed.
Myrna Page, M.P.H., C.H.E.S.
Bruna Varalli-Claypool, M.H.S., P.A.-C.
Carol Ward, M.S.N., R.N.-B.C., N.P.D.-B.C.

Faculty

- **Justin Carter, Pharm.D., C.S.P.I.**
Certified Specialist in Poison Information, Oklahoma Center for Poison & Drug Information
Oklahoma City
- **William Banner, Jr., M.D., Ph.D., D.A.B.M.T.**
Medical Director, Oklahoma Center for Poison & Drug Information
Oklahoma City
- **Yvette Lowery, D.N.P., M.S.N./Ed., F.N.P.-C, C.C.R.N., C.E.N., P.C.C.N.**
Clinical Assistant Professor, Northwestern Oklahoma State University
Alva, Oklahoma
Emergency Medicine Provider, North Florida Regional Medical Center,
Gainesville, Florida
- **Ryan Brown, M.D., F.A.A.P.**
Assistant Professor, University of Oklahoma College of Medicine, Department of Pediatrics
Oklahoma City
Medical Director – Child Protection Team, The Children’s Hospital at OU Medical Center
Oklahoma City
- **Kristie Edelen, Pharm.D., D.A.B.A.T.**
Assistant Managing Director, Oklahoma Center for Poison & Drug Information
Oklahoma City
Adjunct Assistant Professor, University of Oklahoma College of Pharmacy
Oklahoma City
- **Lindsey Epperson, D.O.**
Medical Toxicology Fellow, UT Southwestern Medical Center
Dallas, Texas
- **Bruna Varalli-Claypool, M.H.S., P.A.-C.**
Associate Professor, University of Oklahoma Physician Associate Program
Oklahoma City
- **Clark Edelen**
Detective, Guthrie Police Department – Guthrie, Oklahoma
Special Response Entry Team, Logan County Special Response Team (SRT)
Logan County, Oklahoma
- **Scott Schaeffer, R.Ph., D.A.B.A.T.**
Managing Director, Oklahoma Center for Poison & Drug Information
Oklahoma City
Adjunct Assistant Professor, University of Oklahoma College of Pharmacy
Oklahoma City

Faculty - continued

➤ **Yashas Nathani, M.D.**

Emergency Medicine Provider, The Children's Hospital at OU Medical Center
Oklahoma City
Assistant Professor, OU College of Medicine – Department of Pediatrics
Oklahoma City, Oklahoma

➤ **Cecilia Guthrie, M.D.**

Emergency Medicine Provider, The Children's Hospital at OU Medical Center
Oklahoma City
Assistant Professor, OU College of Medicine – Department of Pediatrics
Oklahoma City

ACCREDITATION STATEMENTS

PHYSICIANS - CONTINUING MEDICAL EDUCATION



The University of Oklahoma College of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Oklahoma College of Medicine designates this live activity for a maximum of 8.00 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NURSING CONTINUING EDUCATION

Oklahoma Board of Nursing approval of Pharmacology continuing education units are pending application approval.

ANCC Accreditation Statement: OU Medicine, Inc. is accredited with distinction as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

CNE Disclosure Statements: OU Medicine, Inc. is accredited with distinction as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

8.00 CNE contact hours will be awarded for meeting the following criteria: 90% attendance of conference, completion and submission of evaluation form.

This educational activity does not include any content that relates to products and/or services of a commercial interest that would create a conflict of interest.

EMS

This program has been approved for 8 hours of state-approved pre-hospital personnel CME.

PHARMACY CONTINUING EDUCATION



The University of Oklahoma College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. *This activity is eligible for 8.0 contact hours of ACPE credit.*

INSTRUCTIONS TO RECEIVE CREDIT

Notice of Requirements for successful completion of continuing education credit: participants are required to record their attendance at the conference and complete the online evaluation at the end of the conference. When you complete the online evaluation you will receive access to your Certificate of Successful Completion (with the exception of pharmacists, see below).

ACCREDITATION STATEMENTS - CONTINUED

PHARMACISTS

This seminar offers a total of 8 contact hours (.8 CEUs) of ACPE-accredited continuing pharmacy education credit accepted by the Oklahoma Board of Pharmacy and most other states. Credit will be earned based on the participation in individually accredited activities. Full attendance and participation are required before obtaining CPE credit. Partial credit will not be awarded. Please note next to the listed ACPE# the type of activity [(K)= Knowledge-based CPE activity, (A) = Application-based CPE activity]. These activities are structured to meet knowledge- and/or application-based education needs. A knowledge-based activity is for participants to acquire factual knowledge. An application-based activity is for participants to apply the information learned in the allotted timeframe. Information in knowledge- and application-type activities is based on evidence as accepted in the literature by the healthcare professions.

For successful completion and subsequent awarding of credit, the attendance verification procedure will require each participant to: record your attendance, provide NABP e-Profile ID # and month and day of birth, participate in the learning assessment and complete the online program evaluation.

The University of Oklahoma College of Pharmacy, as an ACPE-accredited provider, is required to report all pharmacy continuing education credit through the CPE Monitor. Credit will be available online to participants within four weeks upon verification of successful completion of the program. A notification email will be sent to participants when credit is uploaded. The initial release date is 2/19/2021.

CONFLICT RESOLUTION

The University of Oklahoma College of Medicine, Office of Continuing Professional Development, OU Medicine, Inc., and College of Pharmacy have reviewed this activity's speaker and planner disclosures and resolved all identified conflicts of interest, if applicable.

INTENDED/TARGET AUDIENCE

Adolescent medicine, cardiology, cardiovascular disease, child abuse/pediatrics, community/public/population health, critical care medicine, emergency medicine, family medicine, general medicine, pediatrics, geriatric medicine, home health care, hospice and palliative medicine, integrative care, internal medicine, medical education, medical toxicology, neonatal-perinatal medicine, neurology, obstetrics, occupational health, pain management, patient and family education, patient safety and quality, pediatric emergency medicine, pediatric neurology, pharmacy, psychiatry, psychology, public health, pulmonary medicine, substance abuse, transplant hepatology, urgent care

LEARNING OBJECTIVES

Upon completion of this activity, participants will improve their competence and performance by being able to:

1. Identify analytical toxicology tests available to support the management of poisoned patients presenting to emergency departments, and recognize advantages and disadvantages of the commonly utilized clinical toxicology laboratory tests.
2. Recognize the most utilized riot control agents by law enforcement and the purpose of each agent, and illustrate a treatment plan for a patient who presents with signs and symptoms after exposure to a riot control agent.
3. Describe how health care providers of several different disciplines can work together in treating a poisoned patient.
4. Recognize toxidromes based on initial physical examination findings in the pediatric patient, and illustrate a treatment plan for a pediatric patient that presents with signs and symptoms of a particular toxidrome.
5. Recognize the signs and symptoms associated with a large ingestion of aspirin-containing products, and illustrate a treatment plan for a patient that presents with signs and symptoms of a salicylate overdose.

ACCOMMODATION STATEMENT

For accommodations contact Susie Dealy at (405) 271-2350, ext. 1, or email at susie-dealy@ouhsc.edu as soon as possible.

ACKNOWLEDGEMENT OF COMMERCIAL AND IN-KIND SUPPORT

Commercial support is financial, or in-kind, contributions given by a commercial interest, which is used to pay all or part of the costs of a CME activity. A commercial interest is any entity producing, marketing, re-selling, or distributing health care goods or services consumed by, or used on, patients.

Appropriate acknowledgement of all commercial and in-kind support will be given at the time of the educational activity.

DISCLAIMER STATEMENT

Statements, opinions and results of studies contained in the program are those of the presenters and authors and do not reflect the policy or position of the Board of Regents of the University of Oklahoma ("OU") nor does OU provide any warranty as to their accuracy or reliability.

Every reasonable effort has been made to faithfully reproduce the presentations and material as submitted. However, no responsibility is assumed by OU for any claims, injury and/or damage to persons or property from any cause, including negligence or otherwise, or from any use or operation of any methods, products, instruments or ideas contained in the material herein.

POLICY ON FACULTY AND PRESENTERS DISCLOSURE

It is the policy of the University of Oklahoma College of Medicine, OU Medicine, Inc., and College of Pharmacy that the faculty and presenters disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also discloses discussions of unlabeled/unapproved uses of drugs and devices during their presentations.

ACGME COMPETENCIES

This course is designed to meet the following Accreditation Council for Graduate Medical Education competencies.

- Patient care
- Medical knowledge
- Practice-based learning/improvement

NONDISCRIMINATION STATEMENT

The University of Oklahoma, in compliance with all applicable federal and state laws and regulations, does not discriminate on the basis of race, color, national origin, sex, sexual orientation, genetic information, gender identity, gender expression, age, religion, disability, political beliefs, or status as a veteran in any of its policies, practices or procedures. This includes, but is not limited to: admissions, employment, financial aid and educational services. Inquiries regarding non-discrimination policies may be directed to:

Bobby J. Mason, Institutional Equity Officer, (405) 325-3546, email bjm@ou.edu, or visit www.ou.edu/eoo.

AGENDA

Moderators: Kristie Edelen, Pharm.D., D.A.B.A.T. and Scott Schaeffer, R.Ph., D.A.B.A.T.

(K) - Knowledge-Based (A) Application-Based

8 – 8:15 a.m.

WELCOME & INTRODUCTION (Scott Schaeffer, R.Ph., D.A.B.A.T.)

8:15 – 9 a.m.

(K) Initial Evaluation of the Poisoned Patient: Toxicology Tests, Vital Signs and Toxic Syndromes
(ACPE Number: 0053-9999-21-001-L01-P)

Speaker: Lindsey Epperson, D.O.

Learning Objectives:

1. Identify analytical toxicology tests available to support the management of poisoned patients presenting to emergency departments.
2. Define which medications require quantitative analysis to evaluate clinical effect.
3. Recognize advantages and disadvantages of commonly utilized clinical toxicology laboratory tests.
4. Explain the pitfalls of the basic urine drug screen.
5. Outline an organized, rapid clinical management plan for the acutely poisoned or overdosed patient.

Contact/CME Hours: 0.75

9 – 10 a.m.

(A) I Protest! – Riot Control Agents

(ACPE Number: 0053-9999-21-002-L04-P)

Speakers: Detective Clark Edelen and Kristie Edelen, Pharm.D., D.A.B.A.T.

Learning Objectives:

1. Differentiate the most utilized riot control agents by law enforcement and the purpose of each agent.
2. Examine how riot control agents work and the immediate signs and symptoms that can be seen.
3. Illustrate a treatment plan for a patient that presents with signs and symptoms after exposure to a riot control agent.

Contact/CME Hours: 1

10 – 10:05 a.m.

BREAK

10:05 – 11:05 a.m.

(A) Anyone Seen My Patient's Blood Pressure? – Multi-disciplinary Roundtable

(ACPE Number: 0053-9999-21-003-L01-P)

Speakers: Yvette Lowery, D.N.P., M.S.N./Ed., F.N.P.-C, C.C.R.N., C.E.N., P.C.C.N.

Bruna Varalli-Claypool, M.H.S., P.A.-C., Cecilia Guthrie, MD, Justin Carter, Pharm.D., C.S.P.I.

Learning Objectives:

1. Interpret how health care providers of several different disciplines can work together in treating a poisoned patient.
2. Examine medications that can cause hypotension and bradycardia.
3. Employ a step-wise approach to treating a severely hypotensive and bradycardic patient.

Contact/CME Hours: 1

11:05 – 11:50 a.m.

(K) Pediatric Toxidromes (ACPE Number: 0053-9999-21-004-L01-P)

Speaker: Bruna Varalli-Claypool, M.H.S., P.A.-C.

Learning Objectives:

1. Recognize toxidromes based on initial physical examination findings in the pediatric patient.
2. Outline a treatment plan for a pediatric patient who presents with signs and symptoms of a particular toxidrome.

Contact/CME Hours: 0.75

11:50 a.m. – 12:35 p.m.

(K) Why Is My Patient Smokin' Hot? – Discerning Toxicologic Causes for Hyperthermia (ACPE Number: 0053-9999-21-005-L01-P)

Speaker: Yashas Nathani, M.D.

Learning Objectives:

1. Define the characteristics of anticholinergic and sympathomimetic toxidromes.
2. List the symptoms that may help differentiate anticholinergic and sympathomimetic toxidromes from serotonin syndrome, neuromuscular malignant syndrome, and malignant hyperthermia.
3. Summarize a treatment plan for a patient in which it has been determined is having symptoms from each of the following: anticholinergic toxidrome, sympathomimetic toxidrome, serotonin syndrome, neuroleptic malignant syndrome and malignant hyperthermia.

Contact/CME Hours: 0.75

12:35 – 12:55 p.m.

LUNCH BREAK

12:55 – 1:55 p.m.

(K) Medical Marijuana and Over-the-Counter CBD Products for Chronic Pain: What's the Evidence? (ACPE Number: 0053-9999-21-006-L08-P)

Speaker: Scott Schaeffer, R.Ph., D.A.B.A.T.

Learning Objectives:

1. Identify the distribution and function of cannabinoid receptors in the human body.
2. Summarize the evidence for using medical marijuana and cannabidiol for various pain indications.
3. Identify potential drug interactions in patients using marijuana for the treatment of pain.
4. Recognize barriers to research into the medical use of marijuana and cannabis-derived products.

Contact/CME Hours: 1

1:55 – 2:55 p.m.

(K) Aspirin Overdose: First Do No Harm (ACPE Number: 0053-9999-21-007-L01-P)

Speaker: William Banner, M.D., Ph.D.

Learning Objectives:

1. List formulations of aspirin found in the medicine cabinet.
2. Explain the mechanisms of toxicity for aspirin.
3. Recognize the signs and symptoms associated with a large ingestion of aspirin-containing products.
4. Outline a treatment plan for a patient who presents with signs and symptoms of a salicylate overdose.

Contact/CME Hours: 1

2:55 – 3 p.m.

BREAK

AGENDA
(Continued)

(K) - Knowledge-Based (A) Application-Based

3 – 4 p.m.

(K) Could This Actually Be a Bite or a Sting?

(ACPE Number: 0053-9999-21-008-L01-P)

Speaker: Yvette Lowery, D.N.P., M.S.N./Ed., F.N.P.-C, C.C.R.N., C.E.N., P.C.C.N.

Learning Objectives:

1. Recognize pre-hospital management strategies for treating common bites and stings.
2. Explain the physical examination findings following common bites and stings.
3. Outline a treatment plan for a patient who presents following a bite or sting.

Contact/CME Hours: 1

4-4:05 p.m.

BREAK OUT SESSION ASSIGNMENTS

4:05-5:05 p.m.

(A) Why Can't My Patient Breathe? – Toxicant-Related Lung Injuries

(ACPE Number: 0053-9999-21-009-L01-P)

Speaker: Cecilia C. Guthrie, M.D.

Learning Objectives:

1. Examine the epidemiology of lung injury for several respiratory toxins.
2. Distinguish the pathogenesis of lung injury found in different toxicant-related lung injuries.
3. Analyze recommended treatment modalities for different respiratory toxins.

Contact/CME Hours: 1

4:05-5:05 p.m.

(A) High Yield Toxicology Review for Board Exams

(PLEASE NOTE: ACPE Credit is not available for this session)

Speakers: William Banner, M.D., Ph.D., Yashas Nathani, M.D.

Learning Objectives:

1. Demonstrate how to approach to a patient with suspected poisoning/overdose.
2. Analyze high-yield ingestions/poisonings for board exams.
3. Differentiate between common toxidromes.

Contact/CME Hours: 1

5:05 p.m.

Closing Remarks

Scott Schaeffer, R.Ph., D.A.B.A.T.

