

Second Annual

# Toxicology Education Day

*Emerging Trends in Drug Use and Poisoning*



**Friday, April 5, 2019**

8 a.m. to 5 p.m.

Earn up to 7.75 AMA PRA Category 1 Credits™

8.0 contact hours of ANCC approved continuing education

10.2 Pharmacology contact hours of **Category B** education

This activity is eligible for 7.75 contact hours of ACPE credit

**Nicholson Conference Center**

940 NE 13th St.

Nicholson Tower, Suite 5900

Oklahoma City, OK 73104

To register online, please visit: [cme.ouhsc.edu](http://cme.ouhsc.edu)

Or contact (405) 271-2350



The University of Oklahoma College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.



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## Program Overview and Target Audience

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This program is intended for healthcare professionals working in the fields of emergency, critical care, internal, family, and pediatric medicine seeking clinical knowledge of toxicology and updates in the management of the poisoned patient. This one-day course will review emerging trends in drug use and abuse, as well as updates in management of poisoned patients. In addition, changing laws regarding prescribing of opioids and medical marijuana will be discussed by an expert panel with opportunity for questions from the audience.

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## Planning Committee

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Jami Johnson, Pharm.D., D.A.B.A.T., **Course Director**

Susie Dealy, M.Ed.

Bruce Dobey, M.H.S., P.A.-C.

Chad Douglas, M.D., Pharm.D.

Kristie Edelen, Pharm.D., D.A.B.A.T.

Melissa Jones, M.H.A., B.A., L.S.S., G.B.

Kathryn Konrad, M.S., R.N.C.-O.B.

Myrna Page, M.P.H., C.H.E.S.

Cassidy Roberts, M.B.A.

Dian Sultzbach, Pharm.D. Candidate

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## Overall Learning Objectives

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

1. Identify changing trends in drug use and poisoning.
2. Describe the current regulations and law regarding prescribing medical marijuana.
3. Differentiate between various toxic syndromes.

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## Faculty

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### **Kristin Bohnenberger, Pharm.D., D.A.B.A.T.**

Clinical Assistant Professor, Ernest Mario School of Pharmacy, Rutgers University - Piscataway, New Jersey  
Emergency Medicine Clinical Pharmacist, Penn Medicine Princeton Medical Center - Plainsboro, New Jersey

### **Boyd Burns, D.O.**

Associate Professor & The George Kaiser Family Foundation Chair in Emergency Medicine, OU-TU School of Community Medicine – Tulsa

### **Jeremy Davis, Pharm.D., D.Ph.**

Pharmacist Compliance Officer, Oklahoma State Board of Pharmacy - Oklahoma City

### **Kristie Edelen, Pharm.D., D.A.B.A.T.**

Senior Specialist in Poison Information, Oklahoma Center for Poison & Drug Information - Oklahoma City  
Adjunct Assistant Professor, University of Oklahoma College of Pharmacy - Oklahoma City

### **Jami Johnson, Pharm.D., D.A.B.A.T.**

Assistant Director, Oklahoma Center for Poison & Drug Information - Oklahoma City  
Adjunct Assistant Professor, University of Oklahoma College of Pharmacy - Oklahoma City

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## Faculty (continued)

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**Lyle Kelsey, M.B.A., C.M.B.E.**

Executive Director, Oklahoma Board of Medical Licensure and Supervision - Oklahoma City

**Edd Rhoades, M.D., M.P.H.**

Chief Medical Officer, Oklahoma State Department of Health - Oklahoma City

**Adrienne Rollins, MPA**

Director of Health Policy, Planning and Partnerships and the Oklahoma Medical Marijuana Authority,  
Oklahoma State Department of Health - Oklahoma City

**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

**Shelly Zimmerman, D.O.**

Faculty, NRH Emergency Medicine Residency  
Norman Regional Health Systems, Norman, OK

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## Accreditation Statements

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**Physicians**

**Continuing Medical Education-Accreditation Statement:**

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 7.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Nursing**

**Nursing Continuing Education Statement:**



This activity is approved for 8.0 contact hours of ANCC approved continuing education. The University of Oklahoma Fran and Earl Ziegler College of Nursing is an approved provider of continuing nursing education by the Continuing Nursing Education (CNE) Group, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. "UOC-0616 – APPROVAL ACTIVE AUGUST 22, 2016-OCTOBER 1, 2019".

**Nurse Practitioners**

**Nursing Pharmacology Statement:**



**Oklahoma Board of Nursing**

This course has been approved for Pharmacology hours by the Oklahoma Board of Nursing for 10.2 contact hours of **Category B** education (based on 50 minutes per contact hour) for Advanced Practice Nurses. It is the responsibility of the nurse to assure pharmacology hours apply to their scope of practice.

## Pharmacists

### **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.

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## **Instructions to Receive Credit**

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**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).

### Pharmacists

This seminar offers a total of 7.75 contact hours (.775 CEUs) of 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. Partial credit will not be awarded. Full attendance and participation are required before obtaining CPE credit. 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 complete the following: Record your attendance at the beginning and end of the morning session and again at the beginning at end of the afternoon session; Provide NABP e-Profile ID # and month and day of birth; Return nametag at the end of the final session attended 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 to six 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 4/5/2019.

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## **Conflict Resolution Statement**

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

## **— Acknowledgement of Conflict of Interest 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.

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## **Disclaimer Statement**

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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.

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## **Policy on Faculty and Presenter Disclosure**

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It is the policy of the University of Oklahoma College of Medicine, Fran and Earl Ziegler College of Nursing, 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.

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## **Accreditation Council for Graduate Medical Education (ACGME)**

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### **American Board of Medical Specialties (ABMS) Competencies**

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This course is designed to meet the following Accreditation Council for Graduate Medical Education competencies: Patient Care, Practice-Based Learning/Improvement, Professionalism, Medical Knowledge.

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## **Nondiscrimination Statement**

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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, [bjm@ou.edu](mailto:bjm@ou.edu), or visit [www.ou.edu/eoo](http://www.ou.edu/eoo).

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## **Accommodations Statement**

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For accommodations, contact Susie Dealy at (405) 271-2350, ext. 1, or email at [Susie-Dealy@ouhsc.edu](mailto:Susie-Dealy@ouhsc.edu).

# Agenda

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**Moderators: Jami Johnson, Pharm.D., D.A.B.A.T. and Chad Douglas, M.D., Pharm.D.**

- 7:30-8 a.m. Registration, Breakfast and Exhibits (Conference Room F)**
- 8 -8:15 a.m. Welcome and Introductions, Housekeeping**
- 8:15-8:30 a.m. \*An Introduction to Your Poison Center (K)**  
ACPE # 0053-9999-19-015-L04-P 0.25 contact hrs (0.025 CEUs)  
**Speaker:** Jami Johnson, Pharm.D., D.A.B.A.T.  
**Learning Objective:** 1. Identify the tools and resources offered by the local poison center.
- 8:30-9:30 a.m. \*Toxidromes (A)**  
ACPE # 0053-9999-19-016-L01-P 1.0 contact hour (0.1 CEUs)  
**Speaker:** Kristie Edelen Pharm.D., D.A.B.A.T.  
**Learning Objectives:** 1. Recognize the toxins most commonly associated with major outcomes. 2. Recognize toxidromes based on initial physical examination findings. 3. Describe the mechanism of toxicity of aspirin. 4. Demonstrate a treatment strategy for a patient suffering from salicylate toxicity.
- 9:30-10 a.m. \*Opioid Alternatives (K)**  
**Speaker:** Jami Johnson, Pharm.D., D.A.B.A.T.  
ACPE # 0053-9999-19-023-L01-P 0.5 contact hour (0.05 CEUs)  
**Learning Objectives:** 1. Describe the mechanism of action of kratom. 2. Describe the interactions between kratom and other commonly abused substances. 3. Identify the potential adverse effects from loperamide overdose.
- 10 -10:30 a.m. \*Drug Interactions to Prolong Highs (K)**  
ACPE # 0053-9999-19-018-L01-P 0.5 contact hour (0.05 CEUs)  
**Speaker:** Kristin Bohnenberger, Pharm.D., D.A.B.A.T.  
**Learning Objective:** 1. Explain the potential interaction between methadone and omeprazole.
- 10:30-10:45 a.m. Break and Exhibits (Conference Room F)**
- 10:45-11:15 a.m. \*Evading Drug Screens (K)**  
ACPE # 0053-9999-19-019-L01-P 0.5 contact hour (0.05 CEUs)  
**Speaker:** Kristin Bohnenberger, Pharm.D., D.A.B.A.T.  
**Learning Objective:** 1. Recognize common modalities used to elude urine drug testing.
- 11:15 a.m.-Noon \*Medical Marijuana: Weeding Out the Myths (K)**  
ACPE # 0053-9999-19-020-L01-P 0.75 contact hrs (0.075 CEUs)  
**Speaker:** Scott Schaeffer, R.Ph., D.A.B.A.T.  
**Learning Objectives:** 1. Describe the distribution of cannabinoid receptors in the human body 2. Discuss medical conditions in which the use of cannabis may be beneficial 3. List various methods of cannabis use 4. Identify parts of the cannabis plant with the highest cannabinoid concentration

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## Agenda (Continued)

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**Noon-12:30 p.m.      Lunch & Exhibits (Conference Room F)**

**12:30-1:15 p.m.      \*Legislative Update (K)**

ACPE # 0053-9999-19-021-L03-P 0.75 contact hrs (0.075 CEUs)

**Speakers:**      Jeremy Davis, Pharm.D., D.Ph.  
                         Lyle Kelsey, M.B.A., C.M.B.E.  
                         Melissa Miller, M.S.W.  
                         Edd Rhoades, M.D.  
                         Adrienne Rollins, M.P.A.  
                         Scott Schaeffer, R.Ph., D.A.B.A.T.

**Learning Objective:** 1. Discuss recent changes in legislation regarding prescribing of medical marijuana.

**1:15-2:45 p.m.      \*Synthetic Storm: Cathinones, Opioids, and Cannabinoids (A)**

ACPE # 0053-9999-19-022-L01-P 1.5 contact hour (0.15 CEUs)

**Speakers:**      Scott Schaeffer, R.Ph., D.A.B.A.T.  
                         Jami Johnson, Pharm.D., D.A.B.A.T.

**Learning Objectives:** 1. Identify synthetic drugs of abuse. 2. Recall the mechanisms of toxicity for synthetic cannabinoids and cathinones. 3. Illustrate a treatment strategy for management of a patient following exposure to a synthetic drug. 4. Compare the toxidrome commonly seen with synthetic versus traditional drugs of abuse.

**2:45-3 p.m.              Break and Exhibits (Conference Room F)**

**3-3:30 p.m.            \*Trends in Foodborne Exposures (K)**

ACPE #-0053-9999-19-017-LO1-P 0.5 contact hour (0.05 CEUs)

**Speaker:** Shelly Zimmerman, D.O.

**Learning Objectives:** 1. Define at-risk populations for food-borne illnesses. 2. Identify recent outbreaks in food-borne illnesses. 3. Summarize a treatment strategy for a patient following exposure to a food-borne toxin.

**3:30-4 p.m.            \*Headline Update (K)**

ACPE # 0053-9999-19-024-L04-P 0.5 contact hour (0.05 CEUs)

**Speaker:** Jami Johnson, Pharm.D., D.A.B.A.T.

**Learning Objective:** 1. Describe emerging trends regarding toxicology in 2018-2019.

**4 -5 p.m.                \*Flipped Classroom (A)**

ACPE # 0053-9999-19-025-L01-P 1 contact hour (0.1 CEUs)

**Moderator:** Kristie Edelen Pharm.D., D.A.B.A.T.

**Speaker:** Boyd Burns, D.O.

**Article:** "The Efficacy of Crotalidae Polyvalent Immune Fab (Ovine) Antivenom Versus Placebo Plus Optional Rescue Therapy on Recovery From Copperhead Snake Envenomation: A Randomized, Double-Blind, Placebo-Controlled, Clinical Trial"

**Learning Objectives:** 1. Analyze the clinical question: should copperhead envenomations be treated differently than rattlesnake envenomations. 2. Illustrate the strengths and weaknesses of the assigned article

\*Designates sessions of Continuing Education Credit

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## Conference Location

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### Nicholson Conference Center

940 NE 13<sup>th</sup> St.

Nicholson Tower, Ste 5900

Oklahoma City, OK 73104

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## Driving Directions

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Parking is available in the Stonewall parking garage (P4) for those traveling from off-campus. For those with on-campus parking, please park in your designated parking spot. Detailed parking instructions will be provided following registration.

### From the South:

Follow I-235N to North Lincoln Blvd (exit 1D)

Continue on N. Lincoln Blvd

Turn east onto NE 10<sup>th</sup> St.

Turn north onto Stonewall Ave.

Nicholson Tower is located at the NW corner of 13<sup>th</sup> St. & Stonewall Ave.

### From the North:

Follow I-235S to NE 10<sup>th</sup> St.

Turn east onto NE 10<sup>th</sup> St.

Turn north onto Stonewall Ave.

Nicholson Tower is located at the NW corner of 13<sup>th</sup> St. & Stonewall Ave.





Second Annual Toxicology Education Day-Changing Trends in Drug Use and Poisoning, CME #19010  
 April 5, 2019  
 Nicholson Conference Center

First Name \_\_\_\_\_ Middle \_\_\_\_\_ Last Name \_\_\_\_\_

Degree \_\_\_\_\_ Specialty \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ **Cell Phone (Required)** \_\_\_\_\_

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Please provide an email address you will be able to access. You will use this address to complete your evaluation and print your CME certificate.

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Registration Type (please select one)

Registration Type	Registration Rate
Physicians	\$75
Pharmacists	\$75
Other Health Care Providers	\$75
Residents	\$37.50
Students	\$37.50

**TOTAL AMOUNT DUE:** \$ \_\_\_\_\_

**Payment Method:**

- Departmental Transfer (OUHSC only) Chartfield spread: MISCA COM015 00014 00000
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For questions or more information, contact Susie Dealy: [susie-dealy@ouhsc.edu](mailto:susie-dealy@ouhsc.edu) or (405) 271-2350

Pre-registration is required to allow the Accredited Providers to offer the appropriate faculty and materials necessary to meet the program objectives. Registration will be accepted until 3/29/2019 and includes CME/CE, breakfast, lunch, refreshment breaks and program materials available to download and/or print. No registration refunds will be made after 3/8/2019. Written notification of cancellation must be postmarked before 3/8/2019. Cancellation fee is \$45. Confirmations will be emailed. The Accredited Providers reserve the right to limit registrations or cancel courses if registration is insufficient, in which case, full refunds will be made. Participants are encouraged to confirm the status of the program. For any questions, concerns or grievances associated with this educational activity, please contact Susie Dealy at (405) 271-2350 ext.1, or email [Susie-Dealy@ouhsc.edu](mailto:Susie-Dealy@ouhsc.edu).