



# REGISTER NOW

## 3RD ANNUAL

# TOXICOLOGY EDUCATION DAY

— The Hazardous Household —  
February 21, 2020

Latest Information from CDC | Medical Marijuana Updates | Vaping-Induced Lung Injuries



Oklahoma Center for  
Poison & Drug Information  
(800) 222-1222

**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.**

**This nursing continuing professional development activity was approved by the Texas Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.**

**This course has been approved for Pharmacology hours by the Oklahoma Board of Nursing for 9.6 contact hours of Category B education (based on 50 minutes per contact hour) for Advanced Practice Nurses.**



**COLLEGE OF PHARMACY**  
The UNIVERSITY of OKLAHOMA HEALTH SCIENCES CENTER



The UNIVERSITY of OKLAHOMA  
**College of  
Medicine**



FRAN AND EARL ZIEGLER  
**COLLEGE OF NURSING**  
The UNIVERSITY of OKLAHOMA HEALTH SCIENCES CENTER



## Program Overview & Target Audience

The Third Annual Toxicology Education Day is a single-day conference geared toward healthcare 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 on the OUHSC campus and will entail both breakfast and lunch with afternoon snacks also provided. Topics delivered by experts in the fields of toxicology, emergency medicine and critical care include: an approach to the poisoned patient, recognition of toxidromes, an introduction to your local poison center, an update on medical marijuana in the state of Oklahoma, a review of vaping-associated lung injury, a snakebite review from a pre-hospital perspective, as well as a tour through a toxic household (an overview of toxic toys, over-the-counter medications, and common chemicals found in a garage). The day will finish with an interactive patient simulation.

## Planning Committee

**Jami Johnson, Pharm.D.** - Course Director  
**Chad Douglas, M.D., Pharm.D.**  
**Dian Sultzback, Pharm.D. Candidate, Student**  
**Cassidy Roberts, M.B.A.**  
**Susie Dealy, M.Ed.**  
**Melissa Jones, M.H., B.A., L.S.S. G.B.**  
**Kim Hinds, DNP, RN, CNE**  
**Bruce Dobey, M.H.S, P.A.-C.**  
**Kathryn M. L. Konrad, MS, RNC-OB, LCCE, FACCE**

## FACULTY

- ▶ **Randy Badillo, R.N. C.S.P.I.**  
Senior 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
  
- ▶ **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
  
- ▶ **Chad Douglas, M.D., Pharm.D.**  
Assistant Professor, University of Oklahoma College of Medicine, Department of Family and Preventative Medicine.  
Medical Director and Director for Didactic Education, University of Oklahoma Physician Associate Program
  
- ▶ **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
  
- ▶ **Michael Montgomery, A.D., M.F.P./N.R.P.**  
EMS/Special Operations Chief, Deer Creek Fire Protection District
  
- ▶ **Shane Salimnejad, Pharm.D., B.C.P.S.**  
EM Clinical Specialist, OU Medical Center - 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

## 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

This nursing continuing professional development activity was approved by the Texas Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

This course has been approved for Pharmacology hours by the Oklahoma Board of Nursing for 9.6 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.



## ACCREDITATION STATEMENTS - CONTINUED

### 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 APCE 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).

### 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 at the beginning of both the morning and afternoon sessions, provide NABP e-Profile ID # and month and day of birth, complete the learning assessment, 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 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 2/21/2020.

### CONFLICT RESOLUTION

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.

### 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 healthcare, 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. Describe the resources and capabilities of your local poison center.
2. Differentiate between the various toxic syndromes.
3. Identify toxic substances that can be found in a household garage.
4. Develop a treatment strategy for household intoxicants based on clinical and laboratory findings.

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.

## **ACCOMMODATION STATEMENT**

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

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.

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

# AGENDA

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

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

**7:30-8:00 a.m. REGISTRATION & BREAKFAST EXHIBITS**

**8-8:15 a.m. WELCOME & INTRODUCTION**

8:15-9 a.m. **(K) General Management of the Poisoned Patient (ACPE Number: 0053-9999-20-001-L01-P)**

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

**Learning Objectives:**

1. Identify the tools and resources offered by the local poison center.
2. State the indication for use of activated charcoal.
3. Recognize the use of single and multi-dose activated charcoal.

**Contact/CME Hours: 0.75**

9-10 a.m. **(A) Toxidromes (ACPE Number: 0053-9999-20-002-L01-P)**

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

**Learning Objectives:**

1. Recognize toxidromes based on initial physical examination findings
2. Differentiate the characteristics of anticholinergic and sympathomimetic toxidromes
3. Illustrate a treatment plan for a patient that presents with signs and symptoms of a particular toxidrome.

**Contact/CME Hours: 1**

**10-10:15 a.m. BREAK/EXHIBITORS**

10:15-10:45 a.m. **(K) Medical Marijuana Update (ACPE Number: 0053-9999-20-003-L03-P)**

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

**Learning Objectives:**

1. Describe changes in Oklahoma medical marijuana law since passage of the 2019 'Unity' bill
2. Recall the number of medical marijuana licenses issued and implications for marijuana distribution in the state.

**Contact/CME Hours: 0.5**

10:45-11:30 a.m. **(K) Vaping-Induced Lung Injury (ACPE Number: 0053-9999-20-004-L01-P)**

**Speaker:** Bill Banner, M.D., Ph.D., D.A.B.M.T.

**Learning Objectives:**

1. Summarize the acute versus chronic effects between the various products and black-market products available.
2. Review the clinical presentation of several critically ill children following the use of these products
3. Identify the modalities available for critical support of these acute injuries
4. Recognize the limitations of intensive care modalities in end-stage diseases

**Contact/CME Hours: 0.75**

11:30-Noon **(K) Toy Wall of Shame (ACPE Number: 0053-9999-20-005-L04-P)**

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

**Learning Objectives:**

1. Identify toys known to cause injury and/or toxicity in children
2. Describe the mechanism of toxicity of 1,4-butanediol

**Contact/CME Hours: 0.5**

# AGENDA

## (Continued)

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

### NOON-12:30 p.m. LUNCH/EXHIBITORS

12:30-1:30 p.m.

#### (K) Garage Tour (ACPE Number: 0053-9999-20-006-L04-P)

Speaker: Kristin Bohnenberger, Pharm.D., DA.B.A.T.

#### Learning Objectives:

1. List common household toxicants that are stored in the garage.
2. Explain the mechanism of toxicity of ethylene glycol.
3. Recognize the signs and symptoms of methylene chloride toxicity.
4. Identify the clinical presentation of hydrofluoric acid and other acid exposures.

Contact/CME Hours: 1

1:30-2:30 p.m.

#### (K) Medicine Cabinet Tour (ACPE Number: 0053-9999-20-007-L04-P)

Speaker: Shelly Zimmerman, D.O.

#### Learning Objectives:

1. List common household toxins found in the medicine cabinet.
2. Explain the mechanisms of toxicity for common over-the-counter products
3. Recognize the signs and symptoms associated with common OTC products.

Contact/CME Hours: 1

2:30-2:45 p.m.

### BREAK/EXHIBITORS

2:45-3:45 p.m.

#### (K) Snakebites: The Pre-Hospital Experience (ACPE Number: 0053-9999-20-008-L01-P)

Speaker: Michael Montgomery, EMS/Special Operations Chief, Deer Creek Fire Protection District

#### Learning Objectives:

1. Identify defining physical features of pit viper snakes
2. Recognize pre-hospital management strategies for pit viper snakebites
3. Explain the physical examination findings following pit viper snakebites

Contact/CME Hours: 1

3:45-4 p.m.

### BREAK

4-5:30 p.m.

#### (A) Toxicology Simulation (ACPE Number: 0053-9999-20-009-L01-P)

Speaker: Shane Salimnejad, Pharm.D., B.C.P.S.

#### Learning Objectives:

1. Identify the primary mechanism of elimination of iron
2. Describe the clinical manifestations and laboratory findings associated with iron toxicity
3. Summarize the mechanisms of toxicity of iron
4. Illustrate a treatment strategy for a patient with iron toxicity
5. Summarize the mechanism of action of deferoxamine
6. Differentiate between adverse effects of iron toxicity and deferoxamine

Contact/CME Hours: 1.5

5:30-5:45 p.m.

### CLOSING REMARKS

# DIRECTIONS

## CONFERENCE LOCATION

Nicholson Conference Center  
 940 NE 13th St. | Nicholson Tower, Suite 5900  
 Oklahoma City, OK 73104

## DRIVING DIRECTIONS

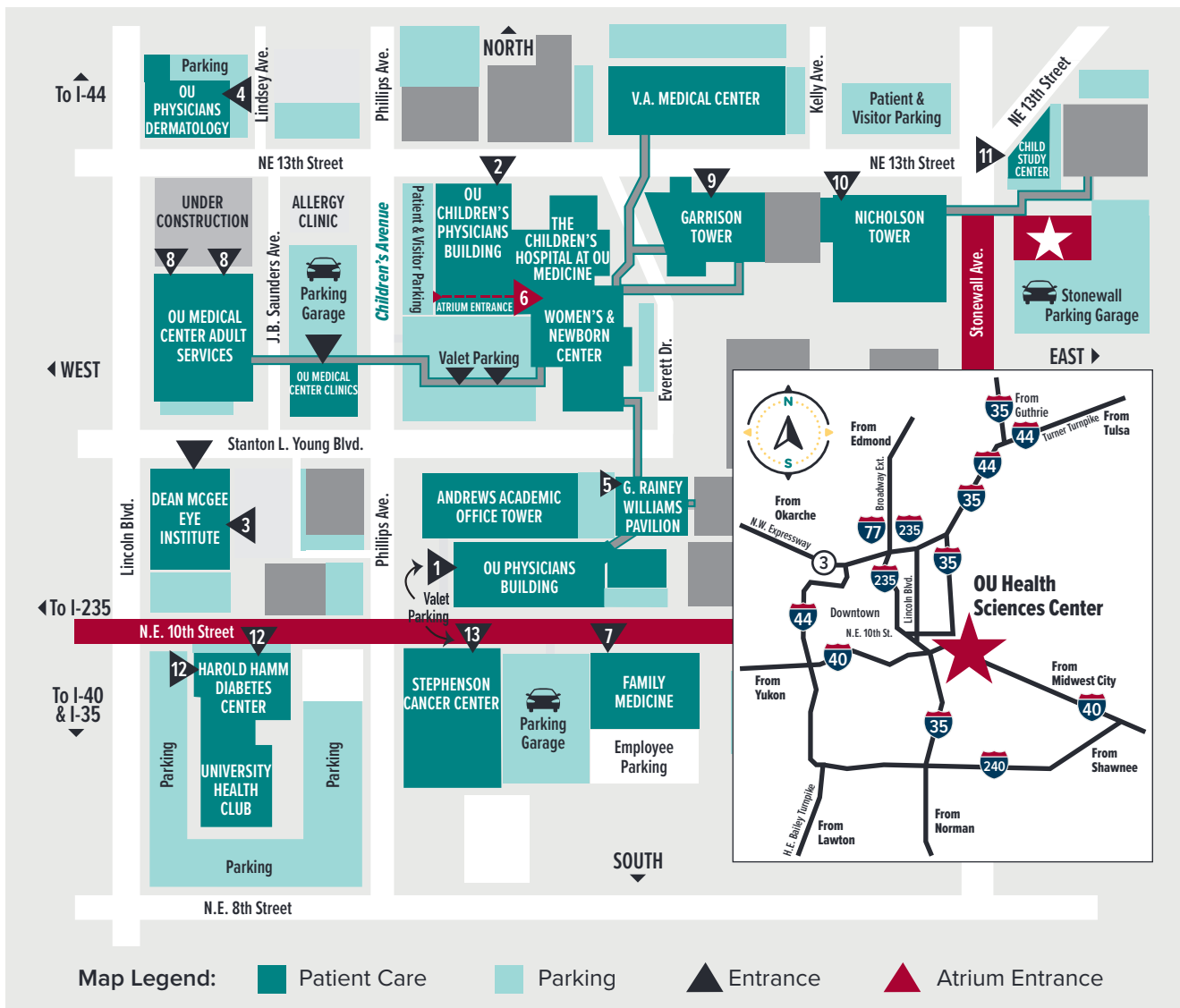
Parking is available in the Stonewall parking garage (P4) for those traveling from off-campus. For those with on-campus parking, please park in your designated parking spot. Detailed parking instructions will be provided following registration.

### From the South:

- Follow I-235N to North Lincoln Blvd (exit 1D)
- Continue on N. Lincoln Blvd
- Turn east onto NE 10th St.
- Turn north onto Stonewall Ave.
- Nicholson Tower is located at the NW corner of 13th St. & Stonewall Ave.

### From the North:

- Follow I-235S to NE 10th St.
- Turn east onto NE 10th St.
- Turn north onto Stonewall Ave.
- Nicholson Tower is located at the NW corner of 13th St. & Stonewall Ave.





**THIRD ANNUAL TOXICOLOGY EDUCATION DAY - THE HAZARDOUS HOUSEHOLD, CME #20006  
FEBRUARY 21, 2020**

Online registration is highly recommended. To register online, go to [cme.ouhsc.edu](http://cme.ouhsc.edu).

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

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

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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

Date of Birth \_\_\_\_\_ NPI Number \_\_\_\_\_ NABP e-Profile ID # \_\_\_\_\_

Emergency Contact Name \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_

\*Email \_\_\_\_\_

Please provide an email address that you will be able to access. You will use this address to complete your evaluation and print your CME certificate. We will not share your email or contact information with anyone outside of the CPD office.

Please check if you decline the receipt of future electronic messages from the University of Oklahoma College of Medicine Office of CPD.

**Early Bird Registration Type:** Please select one (on or before February 1, 2020)

Physicians (\$75)     Pharmacists (\$75)     Other Healthcare Providers (\$75)     Residents/Students (\$37.50)

**Registration Type:** Please select one (after February 1, 2020)

Physicians (\$100)     Pharmacists (\$100)     Other Healthcare Providers (\$100)     Residents/Students (\$50)  
 OUHSC Faculty (\$50)     Oklahoma Center for Poison and Drug Information (\$0)

- Online registration and early registration are strongly recommended.
- No registration refunds will be made after February 14, 2020.
- Written notification of cancellation must be postmarked on/or before February 10, 2020.
- Cancellation Fee is \$45

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

Payment Method (*NOTE: We DO NOT accept credit card payments through the mail.*):

- Departmental Transfer (OUHSC only) Chartfield spread: MISCA COM015 00014 00000
- Purchase order (please e-mail a copy of the PO to [jan-quayle@ouhsc.edu](mailto:jan-quayle@ouhsc.edu))
- Check: Check Number: \_\_\_\_\_
- Credit Card: (Visa, MasterCard, or Discover)

*Credit card payments are accepted online or by calling the CPD office, 405-271-2350, Monday-Friday 8 a.m.-5 p.m. excluding holidays.*

**MAIL WITH PAYMENT TO:**

OUHSC, Office of CPD  
PO Box 26901, AAT 4000  
Oklahoma City, OK 73126-0901

Spreadsheet Information for Cost Transfers: MISCA COM015 00014 00000 | Tax ID: #73-156-3627  
For questions or more information, contact Susie Dealy: [susie-dealy@ouhsc.edu](mailto:susie-dealy@ouhsc.edu) or (405) 271-2350