An interprofessional approach to creating opioid awareness in health professions curricula

Date: January 23, 2020
Presented by:
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Jeremy Buchanan, BSSW

LMU
DeBusk College of Osteopathic Medicine
LINCOLN MEMORIAL UNIVERSITY
VALUES | EDUCATION | SERVICE
Presentation Objectives

• TN overview of the opioid epidemic
• Describe two methods for incorporating IPE into opioid education in health professions curricula
  • Opioid Symposium
  • Vehicular Collision Video (Team Based Learning)
• Share outcomes data associated with required content
DEBUSK COLLEGE OF OSTEOPATHIC MEDICINE
- Doctor of Osteopathic Medicine (DO)
- PhD in Anatomical Education
- Doctor of Physical Therapy (DPT) (2021)
- Doctor of Occupational Therapy (OTD) (2021)
- Doctor of Dental Medicine (Feasibility)

SCHOOL OF MEDICAL SCIENCES
- Doctor of Medical Science (DMS)
- Physician Assistant Program (PA)-Harrogate
- Physician Assistant Program (PA)-Knoxville (Fall 2020)

COLLEGE OF VETERINARY MEDICINE
- Doctor of Veterinary Medicine (DVM)

SCHOOL OF ALLIED HEALTH SCIENCES
- Medical Laboratory Science
- Veterinary Health Science & Technology

CAYLOR SCHOOL OF NURSING
- Associate of Science in Nursing (ASN)
- Bachelor of Science in Nursing (BSN)
- Master of Science in Nursing (MSN)
  - Nurse Anesthesia
  - Family Nurse Practitioner
  - Family Psychiatric Mental Health Nurse Practitioner
  - Nursing Administration
- Doctor of Nursing Practice (DNP)

DUNCAN SCHOOL OF LAW, Criminal Justice, and Social Work
External Partners: South College and University of Tennessee
Figure 1. National Drug Overdose Deaths Number Among All Ages, by Gender, 1999-2017

Source: Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2017 on CDC WONDER Online Database, released December, 2018
Tennessee Opioid Overdose Deaths
Tennessee Opioid Prescribing Rate along side Overdose Rate

[Graph showing the trend of opioid overdose deaths and prescribing rates from 1999 to 2017.]

Overdose Deaths, Age Adjusted Rate per 100k Persons

Prescribing Rate per 100 Persons
CORE COMPETENCIES

Below you will find a list of the 12 core competencies developed by the Commission on Pain and Addiction Medicine Education. Each of the competencies is then broken down to provide additional detail and explanation.

A. Epidemiology and Population Level
B. Pain Evaluation
C. Pharmacologic and Non-pharmacologic Treatment of Pain
D. Practical Aspects of Prescribing and Communication
E. Conflict Prevention and Resolution
F. Chronic Pain Plans
G. Acute Pain Care for Chronic Pain Patients
   - *Interoffice and Interprofessional Focus*
H. Substance Use Disorder Risk Evaluation
I. Development of a Treatment Plan for the Patient with Substance Use Disorder
J. Management of Overdose Risk
K. Professional and Legal Standards
Planning ahead

• No two curricular schedule are alike
• Advance buy-in from multiple program faculty/administrators
• Hard wiring the requirement into curricula
• Creating a meaningful and educational experience
• Assessing learning outcomes
Opioid Education 2017

• Control Drug Misuse Symposium
  • Identified event objectives
  • Identified programs interested – DO, PA, NP
  • Set a date-September 27, 2017
  • Selected a pre-read
  • Developed pre/post questions related to the reading
Opioid Education 2017

OBJECTIVES

The objectives of the symposium are as follows:

- introduce students to widespread control drug misuse problem in the local and national regions
- recognize misuse in patients and self
- recognize substance use disorders as a chronic disease
- identify best practices for preventing control drug misuse and non-prescription drug treatment options
ADDRESSING THE OPIOID EPIDEMIC:
Control Drug Misuse Symposium

Thursday, September 29, 2017
8 a.m. to 5 p.m.
at
Lincoln Memorial University

The event is closed to the public. Watch it LIVE at:
www.ustream.tv/channel/Imu-special-events

Featured Speaker:
JOHN TEMPLE
author of American Pain

Ninety-one Americans die every day from an opioid overdose. In their clinical training and future residencies, IMU health profession students will be entering clinics and hospitals where they will encounter patients exhibiting drug seeking behavior and patients who are addicted to these medications. This symposium will introduce them to the widespread control drug problem, help them recognize misuse and teach them best practices for treatment and prevention.

DeBusk College of Osteopathic Medicine
LINCOLN MEMORIAL UNIVERSITY
Pre/Post Survey Questions

1. How many Americans die every day from opioid overdose?
   A) 20
   B) 40
   C) 75
   D) 90

2. Since 1999, overdose deaths from opioids have
   A) Doubled
   B) Tripled
   C) Quadrupled

3. What percent of the patients prescribed opioids for noncancerous pain will go on to develop an addiction?
   A) 10%
   B) 15%
   C) 20%
   D) 25%

4. In Tennessee, approximately how many infants are born every year with an opioid addiction because of maternal exposure?
   A) 100
   B) 250
   C) 700
   D) 1000

Re-enforced during registration and presentations
Great line up!
Students were very engaged.

What we learned:
• Too long
• More attendee interaction/IPE needed
• Outcomes were met
  • Students learned a few things
• Budget constraints
## Data

<table>
<thead>
<tr>
<th>Question Description</th>
<th>Pre (N=346)</th>
<th>Post (N=292)</th>
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<tbody>
<tr>
<td>Student Knowledge of Someone Struggling with Addiction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Widespread control drug misuse locally: +27.98%</td>
<td>46%</td>
<td>51%</td>
</tr>
<tr>
<td>· Widespread control drug misuse nationally: +20.55%</td>
<td>69%</td>
<td>97%</td>
</tr>
<tr>
<td>· Recognizing misuse in yourself: +20.26%</td>
<td>76%</td>
<td>97%</td>
</tr>
<tr>
<td>· Recognizing misuse in patients: +29.65%</td>
<td>53%</td>
<td>73%</td>
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<tr>
<th>Question Description</th>
<th>Agree/Strongly Agree Pre (N=346)</th>
<th>Post (N=292)</th>
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<tbody>
<tr>
<td>· Substance abuse is a chronic disease: +8.28%</td>
<td>86%</td>
<td>94%</td>
</tr>
<tr>
<td>· OMT can be an effective functional adjunct to medication in the treatment of chronic pain: +9.02%</td>
<td>88%</td>
<td>97%</td>
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</table>
Objectives:
Recognize the devastating effects of the opioid abuse epidemic and focus on educating health professions students and the community on the current Synthetic Opioid Surge (SOS)

Analyze current treatment models for effectiveness and look at ways to optimize public health outcomes
2019 SOS  
(Synthetic Opioid Surge)

• Half day event
• Required for first year Osteopathic Medical Students, Physician Assistant Students, and Family Nurse Practitioner Students.
• Held April 1, 2019
• IPE Center stage activity
• Panel with interactive Q/A
• Pre-read with Pre/Post survey (quiz questions)
Opioid Epidemic
2016 and 2017 Data

19,413
Deaths attributed to overdosing on synthetic opioids other than methadone

17,087
Deaths attributed to overdosing on commonly prescribed opioids

3 Waves of the Rise in Opioid Overdose Deaths

Fentanyl: Overdoses On The Rise

Exponential increase in naloxone prescriptions

Please use this QR Code to submit questions throughout today's symposium
Great line up once again.

What we learned:

- Too many speakers in a short time
- IPE Activity was cumbersome; investigate alternatives
- Need more longer breaks and sessions transitions
- Community attendees were engaged; invite more next year and investigate ways to involve them more in the discussion
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<th>Question Description</th>
<th>Answered: Yes</th>
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<tr>
<td>Pre (N=292)</td>
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<tr>
<td>I know the difference between an opioid and synthetic opioid. +41</td>
<td>57%</td>
<td>98%</td>
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<th>Question Description</th>
<th>Moderately/Very Aware</th>
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<tr>
<td>Pre (N=292)</td>
<td>Post (N=264)</td>
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<tr>
<td>Please rate the extent to which you are aware of the following:</td>
<td></td>
<td></td>
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<tr>
<td>Ways that professionals can influence positive change in regards to the opioid epidemic. +29</td>
<td>66%</td>
<td>95%</td>
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<tr>
<td>Different types of synthetic opioids +63</td>
<td>29%</td>
<td>92%</td>
</tr>
<tr>
<td>Different treatment options available for those suffering with opioid addiction. +51</td>
<td>42%</td>
<td>93%</td>
</tr>
<tr>
<td>How treatment options are presented to patients in a hospital setting. +53</td>
<td>33%</td>
<td>86%</td>
</tr>
<tr>
<td>Risks that both clinical and non clinical personnel are exposed to as they provide care to individuals that have overdosed from synthetic opioids. +45</td>
<td>47%</td>
<td>92%</td>
</tr>
<tr>
<td>How widespread opioid use is regionally. +17</td>
<td>81%</td>
<td>98%</td>
</tr>
<tr>
<td>How widespread opioid use is nationally. +18</td>
<td>79%</td>
<td>97%</td>
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<table>
<thead>
<tr>
<th>Question Description</th>
<th>Answered Correctly 50-100x more potent</th>
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<tbody>
<tr>
<td>Pre (N=292)</td>
<td>Post (N=264)</td>
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<tr>
<td>How much more potent is Fentanyl compared to Morphine? +22</td>
<td>55%</td>
<td>77%</td>
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<th>Question Description</th>
<th>Answered Correctly Naltrexone</th>
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<td>Pre (N=292)</td>
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<tr>
<td>Which of the following is an example of an Opioid Antagonist? +19</td>
<td>73%</td>
<td>92%</td>
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</table>
Objectives:
Recognize the devastating factors contributing to opioid abuse regionally and nationally including but not limited to Adverse Childhood Experiences

Recognize the importance of engaging individuals that have suffered Adverse Childhood Experiences with a trauma informed approach.

Recognize diverse perspectives of those addressing opioid addiction (i.e. cultural, disciplinary, and ethical.)

Awareness of the unique needs of different populations when addressing opioid addiction.
2020 Opioid Education Symposium
Adverse Childhood Experiences and Opioid Abuse

• Half day event
• Required for first year Osteopathic Medical Students, Physician Assistant Students, and Family Nurse Practitioner Students.
• Reserved Tex Turner Arena (large venue)
• Live streaming to multiple cities and institutions
• Held April 20, 2020
• IPE Networking Activity w/ prizes
• Panel with interactive Q/A
• Pre-read with Pre/Post survey (quiz questions)
Pre-reads

Centers for Disease Control and Prevention

Morbidity and Mortality Weekly Report

ADDICTIVE BEHAVIORS
AN INTERNATIONAL JOURNAL
2020 Opioid Education Symposium

Adverse Childhood Experiences and Opioid Abuse

This event will be streamed from LMU - Tex Turner Arena
6965 Cumberland Gap Pkwy, Harrogate, TN 37752

Monday, April 20, 2020 from 12:45 – 4:30

12:15 - 12:45 Participant Registration / Meet and Greet
12:45 - 12:50 Introduction: Dr. Sherry Jimenez
12:50 - 1:00 Setting the Context: Dr. Richard McGill
1:05 - 1:30 Substance Abuse and Prevention: Dr. Brian Winbigler
1:35 - 2:05 Keynote: Risk of Opioid Abuse Associated with Adverse Childhood Experiences: Dr. Sarah Bacon
2:05 – 2:30 Break and IPE Networking Activity: Dr. Sherry Jimenez (25 minutes)
2:30 – 2:45 Networking Debrief and Student Winners: Dr. Sherry Jimenez
2:45 - 3:05 Adverse Childhood Experiences and Opioid Abuse: Ms. Lena Horn
3:10 – 3:55 Panel Presentation: The Experience of Three Tennessee Court Judges
  - Juvenile Court Judge Robert Estep
  - Juvenile Court Judge Tim Irwin
  - Circuit Court Judge O. Duane Sloan
4:00 - 4:30 Panel Discussion, Q&A, and closing remarks with Dr. Brian Winbigler, Dr. Sarah Bacon, Judge Robert Estep, Judge Tim Irwin, and Judge O. Duane Sloan. Moderator: Dr. Richard McGill
Please submit the following information about you and the person you networked with.

What is your name?

Your SCHOOL NAME, CITY/PROVINCE, COUNTRY

Your email address?

What is the name if the person you spoke with?

What is their school and program of study?

What has drawn them to this profession?

What will be their responsibilities as a practitioner?
Interprofessional Aspects of a Vehicular Collision Scenario

A short film created to gauge the efficacy of imparting IPE knowledge through the use of an educational video

OBJECTIVES:
Recognize proper ethical behavior when providing quality team-based patient care

Discuss how to collaborate effectively with other professionals in order to optimize both patient and public health outcomes

Analyze communication techniques and recognize how they contribute to better patient care and population health outcomes
Shooting the Short Film
Classroom Implementation

Mandatory participation (2 hour):

Attendees: OMS II Students, Social Work Students, Criminal Justice Students

Short Film (25 min) with intermittent interruptions for questions and discussion at built-in pause points throughout the video

Pre/Post-Survey quizzes will be administered

Will conclude with Power Point/Debrief

Questions & Answer session will be faculty driven
IRB approved – Pre/Post survey

- I am aware of the different types of collaboration associated with patient care.
- I am aware of the different types of effective communication techniques used within the healthcare setting.
- I am aware of how communication skills can be impacted by stress.
- I am aware of how important effective communication techniques are when interacting with other disciplines.
- I am aware of the impact nonclinical professionals, such as Law Enforcement have on patient care.
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Questions?
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