



Building Capacity to Treat Complex Medical Conditions through Project ECHO Telementoring Program

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Objectives

- 1. Describe Project ECHO
- 2. Examine the efficacy of the ECHO Model
- 3. Discuss Indiana's ECHO programs
- 4. Identify ways to become involved with these initiatives

ECHO Origin Story: Hepatitis C (HCV) in New Mexico

- Estimated 36,000 individuals in New Mexico with HCV
 - Only 5% were in treatment
- Shortage of specialists
 - Only 2 clinics in New Mexico with the necessary expertise

Arora, S., Thornton, K., Murata, G., Deming, P., Kalishman, S., Dion, D., ... & Kistin, M. (2011). Outcomes of treatment for hepatitis C virus infection by primary care providers. *New England Journal of Medicine*, *364*(23), 2199-2207.



Are You Part of the ECHO?



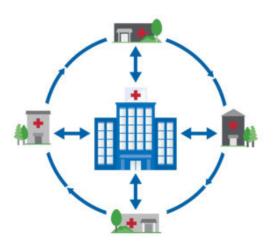
About Project ECHO

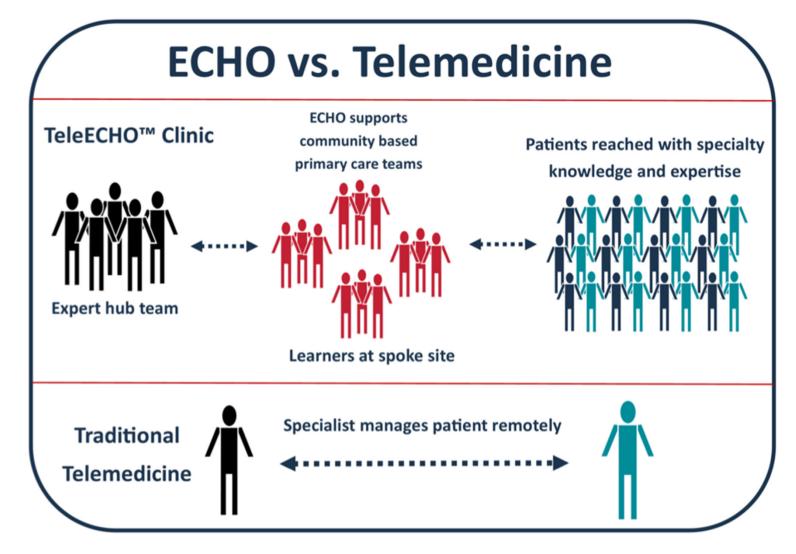
- ECHO = Extension for Community Healthcare Outcomes
- Mission: "...democratize medical knowledge and get best practice care to underserved people all over the world."
- Project ECHO® is a lifelong learning and guided practice model that revolutionizes medical education and exponentially increases workforce capacity to provide best practice specialty care and reduce health disparities through its hub-and-spoke knowledge sharing networks
- Increased access to care → Reduction in racial and ethnic disparities in treatment outcomes → Healthier communities

All Teach, All Learn

Hub and spoke knowledge sharing creates a learning loop:

- Community providers learn from specialists
- Community providers learn from each other
- Specialists learn from community providers as best practices emerge





Treating provider retains responsibility for managing patient.

The ECHO Model

Amplification – Use A **Technology** to leverage scarce Share **Best** B resources **Practices** to reduce disparity **Case Based** Learning to master Web-based complexity Database to **Monitor Outcomes**

ECHO)

Project ECHO Hubs (Global)



Project ECHO: Outcomes

Research demonstrates that Project ECHO can:

- Increase provider knowledge, competence, & confidence in treating patients with complex conditions
- Improve access to care
- Improve patient health
- Increase job satisfaction & retention

Project ECHO: Outcomes

Arora S., Thornton K., Murata G., Deming P., Kalishman S., Dion D., et al. (2011) Outcomes of treatment for hepatitis C virus infection by primary care providers. *New England Journal of Medicine 364*(23), 2199-207. Retrieved from: http://www.ncbi.nlm.nih.gov/pubmed/21631316

Hager, B., Hasselberg, M., Arzubi, E., Betlinski, J., Duncan, M., Richman, J., & Raney, L.E. (2018). Leveraging behavioral health expertise: Practices and potential of the Project ECHO approach to virtually integrating care in underserved areas. *Psychiatric Services*, 69(4), 366-369. https://doi.org/10.1176/appi.ps.201700211

Komaromy, M., Duhigg, D., Metcalf, A., Carlson, C., Kalishman, S., Hayes, L., Burke, T., Thornton, K., & Arora, S. (2016). Project ECHO (Extension for Community Healthcare Outcomes): A new model for educating primary care providers about treatment of substance use disorders. *Substance Abuse* 13(37), 20-24. doi: 10.1080/08897077.2015.1129388

Zhou C., Crawford A., Serhal .E, Kurdyak, P., Sockalingam, S. (2016). The impact of Project ECHO on participant and patient outcomes: A systematic review. *Academic Medicine* 91(10), 1439-1461. doi: 10.1097/ACM.000000000001328

An ECHO Story in Indiana



U.S.

Rural Indiana Struggles to Contend With H.I.V. Outbreak

By MBY COCONOUGH MAY 5, 2005

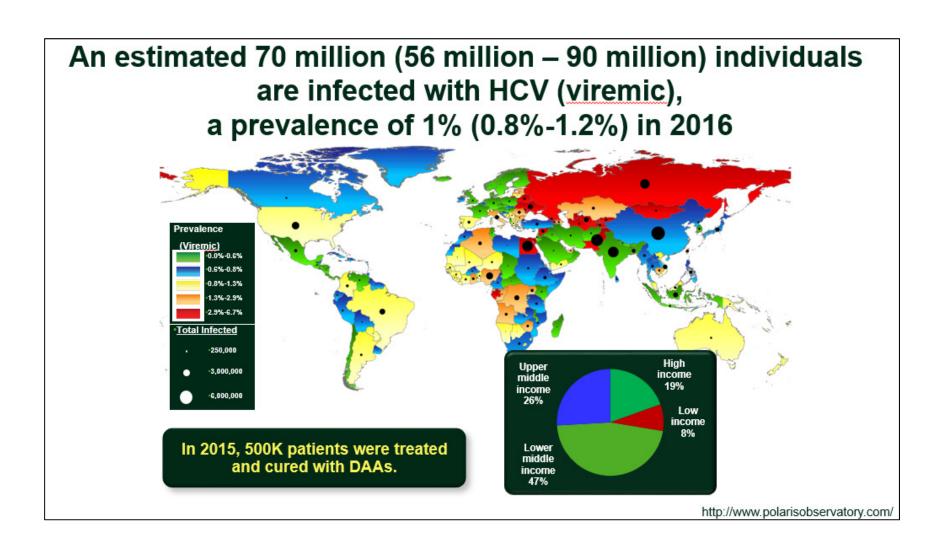
The Washington Post
How an HIV outbreak hit rural Indiana — and why we should be paying attention

Grainers holing discarded pringes as part of a needle eachange program in Austin, Ind.

Austr. F. Brantine for The New York A Times

AUSTIN, Ind. — She became addicted to painkillers over a decade ago, when a car week left her with a broken back and doctors prescribed Oxy Contin during her recovery. Then cames a new prescription opiete,

Opana, easily obtained on the street and more potent when crushed,



Anatomy of an ECHO Clinic

- Meets virtually on a regular schedule
- Group Introductions
- ~20 Minute Didactic + Q&A
- 1-2 de-identified patient Case Presentations



Case Presentations

- 1-2 per session
- Participant will present de-identified case NO PHI
- Spoke will ask clarifying questions
- Experts will ask clarifying questions
- Spoke will make recommendations and share knowledge
- Experts will make recommendations
- Written recommendations will be submitted to participant only
- Follow up presentation will be encouraged





HCV ECHO Case Presentation

General Information

- 57 yo, non-hispanic, Black, Female
- Sexual Orientation: Lesbian
- Insurance coverage: Medicaid

HCV History

- HCV, dx in 3/2012
- Genotype: 1a
- Tx w/ interferon, ribavirin in 2012, not completed (12 weeks)
- Liver biopsy in 2015, F4
- US ordered in 2/18, but patient cancelled or no showed appt several times. No results available.
- MELD Score: 6

Medical History

- Hypertension, controlled w/ meds
- Abnormal EEG 11/14. Dx compelx partial seizure w/ generalization.
- HAV vaccination: Yes
- HBV vaccination: Yes
- BMI: 25.0

Mental Health History

- Depression
- PHQ-9: 15

Substance Use History

- No hx of AUD
- No hx of SUD
- Current tobacco use, has not expressed interest in quitting

Laboratory Testing

- Date of Lab draw: 4/12/2019
- HCV RNA: 1,240,000
- INR:
- Platelet Count: 345
- AST Level (IU/L): 37
- AST (Upper Limit of Normal): 36
- ALT: 58
- Bilirubin: 0.3
- Albumin: 4.2
- APRI: 0.2979

Current Medications

- amlodipine 10mg qd
- lisinopril 10mg qd
- Lexapro 10mg 1 qd
- hydroxyzine 25mg qid prn
- ibuprofen 800 mg tid prn
- ferrous sulfate 325 mg qd

Main Discussion Questions

- 1. Our first rx for Mavyret. (thanks for sample PA letter which worked!) Just checking to see if we have missed anything important.
- 2. Also, differences between FibroSure and other fibrosis blood tests. (She had FibroSure which is for NASH. We have changed to FibroTest for other pts since.)

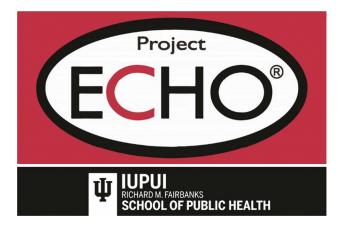


Benefits to Participants

- No cost CMEs / CEUs
- Professional interaction with colleagues with similar interest
 - Less isolation with improved recruitment and retention
- Resource sharing access to ECHO materials
- Access to consultation with specialists
- Meets requirements for renewal of Controlled Substance Registration
- Meets requirement for ISDH loan repayment program

ECHO Participation across Indiana



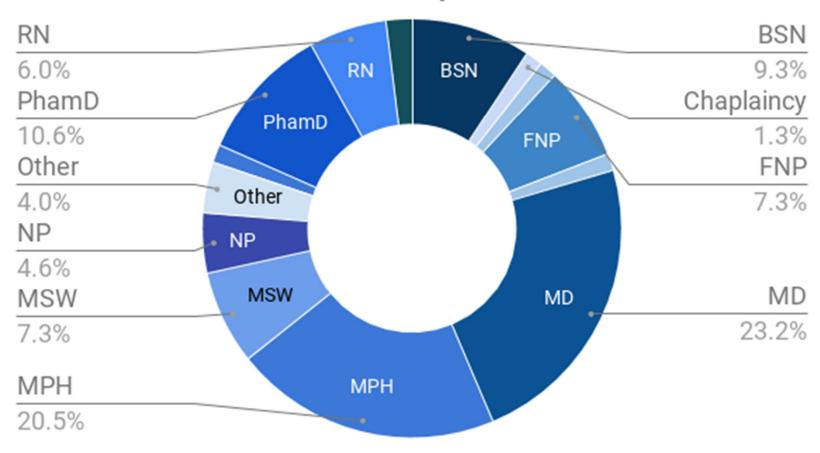


The IUPUI ECHO Center at FSPH



Who's participating in ECHO?

Credentials of FSPH ECHO Participants



HCV ECHO

1st/3rd Thursdays, 12:30-2:00 pm



HCV ECHO Curriculum

- 1. HCV Epidemiology & Testing
- 2. Assessing Liver Disease
- 3. Intro to HCV Treatment
- 4. Most Commonly Use DAAs
- 5. Strategies for Detecting Decompensation in Patients with Chronic Hepatitis C
- 6. An In-Depth Look at Liver Imaging: Ultrasound, CT, MRI, and Transient Elastography
- 7. HCV and other infectious diseases
- 8. Tobacco considerations in patients with HCV
- 9. Hepatitis C Treatment Outside the Specialty Setting: A Practical Guide for Busy Clinicians
- A Brief Introduction to Motivational Interviewing
- 11. HCV and Pregnancy

- 12. Opioid Use Disorders: An Overview
- 13. Extrahepatic manifestations of HCV- part 1
- 14. HCV and Indiana Medicaid
- 15. Extrahepatic manifestations of HCV- part 2
- 16. Navigating the Hepatitis C Medication Prior Authorization Process
- 17. Direct Acting Antivrial Drug Interaction Management
- 18. Hepatitis Elimination in Persons who Inject Drugs
- 19. Getting DAAs funded: Patient Assistant Programs and Grant Resources
- 20. HCV reinfection
- 21. HCV Treatment from a Patient's Perspective
- 22. HBV reactivation with DAAs
- 23. Retreating DAA failures

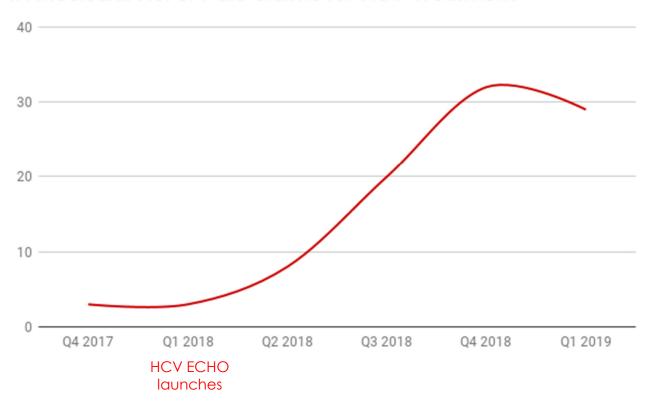
Expanding Access to HCV Treatment Authorizing PCPs

PA Requirements for ALL AGENTS (INITIAL AND RETREATMENT)

1.	Member is 18 years of age or older (or 12 years of age and older for Harvoni and Sovaldi) 🗌 Yes 🔲 No
2.	For women of childbearing age, patient has confirmed negative pregnancy test prior to therapy
	☐ Yes ☐ No ☐ N/A (patient is male)
If no, explain:	
3.	Prescription written by or in consultation with an Infectious Disease or Gastrointestinal Specialist
	☐ Yes (including hepatitis C ECHO Program participants) ☐ No

Expanding Access to HCV Treatment

IN Medicaid: No. of Paid Claims for HCV Treatment





LGBTQ+ ECHO

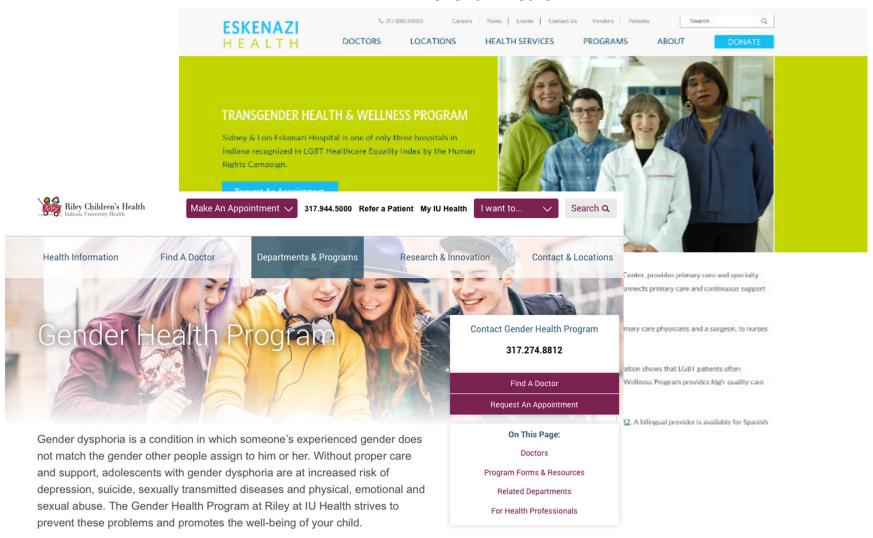
2nd/4th Wednesdays, 2:30-4:00 pm

LGBTQ+ ECHO Curriculum

- The Importance of Language
- 2. Development of Gender Identity
- 3. HIV Prevention and PrEP
- 4. Gender affirming surgery and post op care
- 5. Insurance Tips & Pitfalls
- 6. Primary Care of LGBTQ+ Individuals
- Nutrition and Abnormal Shape Concerns / Eating Disorders
- 8. Sexual Orientation, Sexual Health, Sexuality and Romance
- 9. Creating a Welcoming Office Environment
- 10. Gender Dysphoria, Introduction to Affirmation and Transition
- 11. Behavior Health Concerns in Transgender Patients

- 12. Masculinizing Hormones
- 13. Femininizing Hormones
- 14. Non-binary Identities
- 15. Voice Therapy and Surgical Options
- 16. Assisted Reproduction and Family Planning
- 17. Informed Consent For Gender Affirming Care With Coexisting Severe Mental Illness
- 18. Gender Diverse Youth
- 19. Legal Issues Facing LGBTQ+ People
- 20. Working With Families of Gender Diverse Youth
- 21. Cancer Screening
- 22. Transition and Homeless Youth
- 23. SOGI Data Collection

Transgender Health & Wellness Program Eskenazi Health

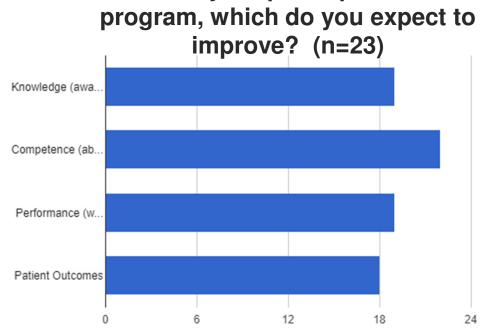


PEDIATRIC AND ADOLESCENT GENDER HEALTH PROGRAM AT RILEY HOSPITAL



LGBTQ+ Post-Session Evaluations

"This project is critical for optimal care of our trans clients!"



Based on your participation in the

HIV ECHO

2nd Thursdays, 8:30-10:00 am 4th Thursdays, 12:30-2:00 pm



HIV ECHO Curriculum

- 1. Intro to ECHO & HIV 101
- 2. HIV Yesterday & Today
- 3. Introduction to Antiretroviral Therapy
- 4. Communication to Lessen HIV Stigma
- 5. Pre Exposure Prophylaxis (PrEP)
- 6. Importance of Adherence
- 7. Post Exposure Prophylaxis (PEP)
- 8. Diagnosing, Treating and Preventing Common Opportunistic Infections
- 9. Sexually Transmitted Infections and HIV
- 10. Substance Use and HIV
- 11. Common Drug Interactions

- 12. Immunization of Adults with HIV
- 13. HIV Case Management
- 14. Switching or Simplifying an Antiretroviral Regimen
- 15. Managing HIV in Pregnancy
- 16. Hepatitis C and HIV
- 17. Refugees and HIV
- 18. Role of Pharmacist in HIV Care
- 19. Ending the Epidemic
- 20. Cervical and Anal Cancer Screening
- 21. Motivational Interviewing
- 22. Corrections and HIV
- 23. Drug Resistance

Learner Information

Accreditation Statement



In support of improving patient care, Indiana University School of Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Nurses

Indiana University School of Medicine designates this activity for a maximum of 1.5 *ANCC contact hours*. Nurses should claim only the credit commensurate with the extent of their participation in the activity.

Pharmacists

Indiana University School of Medicine designates this activity for (ACPE UAN JA4008178-0000-19-004-L01-P) 1.5 ACPE contact hours. Pharmacists should only claim credit commensurate with the extent of their participation in the activity. Credit will be provided to NABP CPE Monitor within 60 days after the activity completion.

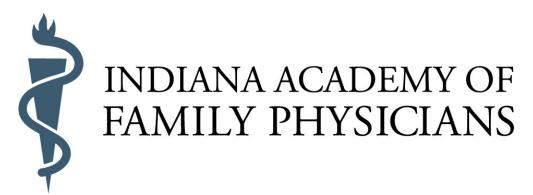
Physicians

Indiana University School of Medicine designates this live activity for a maximum of 1.5 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Social Workers

Indiana University School of Medicine has been approved by the Indiana Social Worker, Marriage and Family Therapist and Mental Health Counselor Board to provide Category I Continuing Education program. This activity qualifies for 1.5 *Category I CEU* as outlined by the Indiana Behavioral Health and Human Services Licensing Board.

American Academy of Family Physicians Live Prescribed CME Credits



Indiana Peer Education Program (INPEP) ECHO

40-hour Training

Selected
Individuals ->
Peer Health
Educators

Health Education & Professional Skills

10-hour Workshops Any person incarcerated or as part of RDC orientation

Health Education & Prevention

Monthly Site Visits

FSPH, Step-Up Inc. & ISDH Staff

Ongoing support

enUP

teleECHOs

All Peer Health Educators & Staff Continuing Education & Case-based learning



Indiana Peer Education Program (INPEP) ECHO

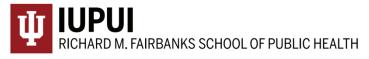




Indiana OUD ECHO

- 1. Partnership between community-based providers and Indiana University-led team of specialists to improve treatment of OUD in rural and other underserved areas
- 2. Supported by IN Family & Social Services Administration contract as part of state 21st Century Cures Act funding
 - Awarded Fall 2017, Renewed spring 2019 through Sept 2020
 - Funds expert panels, 1.5 FTE coordinator, marketing, administration









Barriers to Treating Complex Medical Conditions



Patients are reluctant to engage in evidence-based treatment due to messaging based on stigma around treatment in the community.



Community stigma against people with opioid use disorder and evidence-based treatment.



Lack of collaboration between providers in many communities.



Lack of coverage for many treatment and supportive services that are known to improve outcomes for opioid use disorder.

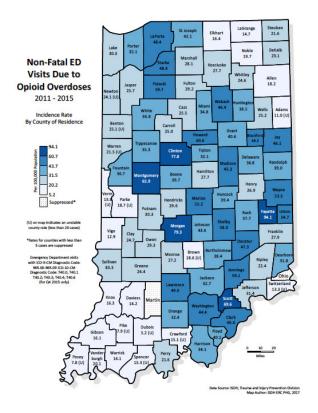


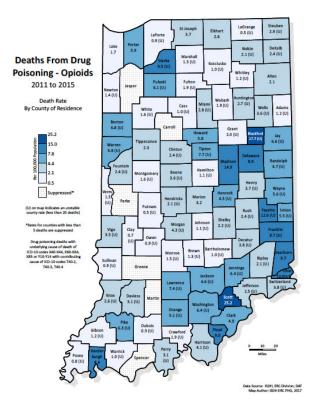
Lack of transportation makes treatment participation difficult.



Inadequate funding for treatment and supportive services.

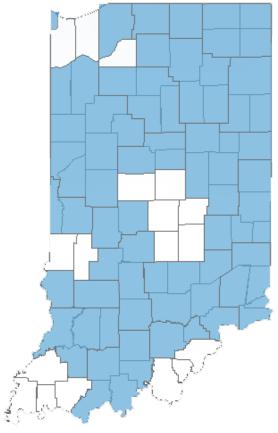
The Opioid Crisis in Indiana







Medically Underserved Areas and Populations (MUA/P)

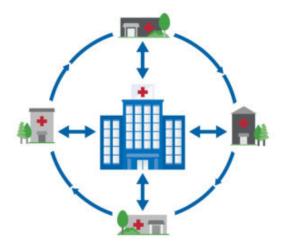


Mental Health Professional Shortage Areas



Opioid Use Disorder Series Every Wednesday, noon-1:30 pm through May 2020





Hub Panel Expertise

Medical-legal partnerships

Psychosocial interventions for OUD

Peer recovery support

Addiction psychiatry, adolescents

Outpatient, inpatient psychiatric pharmacy

Addiction psychiatry, adults & children

Internal medicine, MAT

Social work and case management

Learning Objectives for OUD ECHO

Participants of this new ECHO should be able to:

- 1. Describe the physiology and neurobiology of opioid use disorder
- 2. Assess and diagnose OUD
- 3. Evaluate and identify risk and protective factors for OUD, treatment outcome
- Use current clinical practice guidelines in managing patients with OUD in community clinic & ED settings
- 5. Communicate the balance of benefits and risks with various treatments
- 6. Individualize treatment decisions through shared decision making
- 7. Monitor OUD treatment for adherence, tolerance, and effectiveness
- 8. Coordinate with other health care providers and systems of care to deliver best practice OUD treatment for all aspects of the patients, including social and legal.

Curriculum Schedule for OUD Series

May 29, 2019

June 5, 2019

June 12, 2019

June 19, 2019

June 26, 2019

July 3, 2019

July 10, 2019

July 17, 2019

July 24, 2019

July 31, 2019

August 7, 2019

August 14, 2019

August 21, 2019

August 28, 2019

September 4, 2019

September 11, 2019

September 18, 2019

Overview of MAT & Data Waiver

Assessment of OUD

Induction of MAT

Drug Testing/Patient agreement/Non-

compliance

How OUD & MAT affect the brain

CANCEL

Stigma Reduction

Legal Issues Related to OUD

Peer Recovery Support

Adolescents with SUD

Motivational Interviewing

Harm Reduction Strategies

OUD in Pregnancy

Pain Management

Behavioral Interventions

Co-occurring mental health conditions

Elective



Medical co-occurring disorders (caused by opioid Addiction):

Pharmacologic:

Gastrointestinal Motility decrease/irregularity
Respiratory Depression (lethal overdose)
near lethal overdose





Continuing Education - FREE

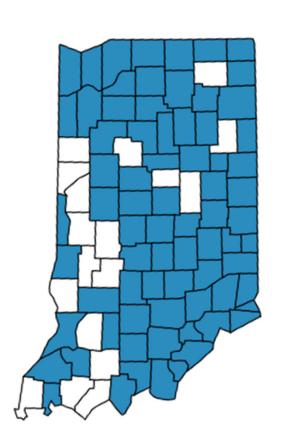
- Community Health Worker and Peer Recovery each session has been approved for 1.5 hours of Continuing Education by ICAADA and Mental Health America of Northeast Indiana for Community Health Workers. Please note that a maximum of 7 CEU can be obtained from Project ECHO for CHW recertification.
- Behavioral Health each session has been approved for 1.5 Category I Continuing Education Units for Social Workers, Clinical Social Workers, Marriage and Family Therapists, Marriage and Family Therapy Associates, Mental Health Counselors, Mental Health Counselor Associates, Addiction Counselors, and Clinical Addiction Counselors as outlined by the Indiana Behavioral Health and Human Services Licensing Board pursuant to Indiana Code 25-1-4-0.2
- Prescriber this activity has been approved for AMA PRA Category 1.5 Credit(s)™ by Indiana University School of Medicine.

OUD Tracks

Track	Participants	Sessions
Prescriber*	113	36
Behavioral Health	75	23
Community Health Worker	65	12
Early Home Visitor	122	3
Adolescent	47	7
Emergency Dept.	43	3
Medical Complications	Coming Soon!	
Jail Based MAT	Coming Soon!	
*Includes management of OUD in pregnant and parenting women		

By the Numbers

- 465 total participants
- 84 sessions completed
- Average 25 participants*
- 74 counties represented





^{*} Exception of First Steps

Preliminary Outcomes

- 1. Prescriber Cohort 1 (n = 43)
 - Generally experienced providers (mean = 11.5 years of practice)
 - Greater <u>confidence</u> in ability to manage OUD
 - Most helpful aspects of IN OUD ECHO (sample responses):
 - "Developing a network of other providers"
 - "I learned a lot about the disorder, treatment options, and patient support groups."
 - · "Getting the panel to weigh in on difficult cases was helpful"
 - "The didactic sessions and suggestions were very informative and helpful"

What Participants are Saying about OUD ECHO

- "Feel more comfortable listening to patients without pressuring them to change".
- "I am going to be more conscious of my language. We have been discussing this at length in my classes and this presentation really brought home the importance of reducing stigma. It is a cycle that affects people from the way they are viewed to the way they are treated (physically, mentally, emotionally, and medically). Thank you!
- Feeling less personally about treatment failures.
- Better understanding of how to transition patients from one substance to another.
- I have a better understanding of how to meet the needs of a patient getting acute care while having a substance use history and how to manage their pain accordingly.
- Very helpful in helping us to build a network of resources and in identifying resources that we had overlooked.

OUD ECHO Testimonials:

"From the case I presented, it connected us with people from WeCare as well as Regenstrief Institute. They came to the office last Friday and we met for about an hour and they are going to be connecting with the young lady for whom the case related. This is a resource we wouldn't have known about, and thank you!"

- Client Care Coordinator from Lebanon, IN

"The ECHO program has been a godsend for me. Being in a small rural community it has made medical education accessible and relatively painless. It has brought to my community improved diagnosis and treatment of an undertreated disease, opiate use disorder. The professional expertise has been enlightening. I'm looking forward to other presentations."

- Primary Care Physician from Pulaski County

Funding Acknowledgements

- Indiana Family and Social Services Administration—21st Century Cures
- IU Addictions Grand Challenge
- Indiana State Department of Health (ISDH)
- Richard M. Fairbanks School of Public Health
- IU School of Medicine Department of Psychiatry
- Centers for Disease Control and Prevention (CDC)
- Greater Health Foundation of Indianapolis
- HCV ECHO is supported by MedIQ through educational grants from AbbVie, INC and Gilead Sciences, INC. The funding has no role in the development of any part of this initiative.

echo.iu.edu



ECHO

ECHO (Extension for Community Healthcare

Outcomes) is a movement to connect local primary care teams with inter-disciplinary specialist teams to improve treatment for complex and chronic health conditions. ECHO uses technology to facilitate mentoring and knowledge sharing, enabling local primary care clinicians to provide best practice care for patients when they need it, close to home.



Experts at Indiana University School of Medicine and the Fairbanks School of Public Health are leading ECHO clinics that are freely available to all providers. Visit the individual project sites below to learn more about ECHO clinics and how to participate:

Hepatitis C ECHO HIV ECHO LGBTQ+ ECHO Opioid Use Disorders ECHO Visit V



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Thank you!

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