

# Virginia Opioid Addiction ECHO\* Clinic March 4, 2022

\*ECHO: Extension of Community Healthcare Outcomes



#### **Helpful Reminders**

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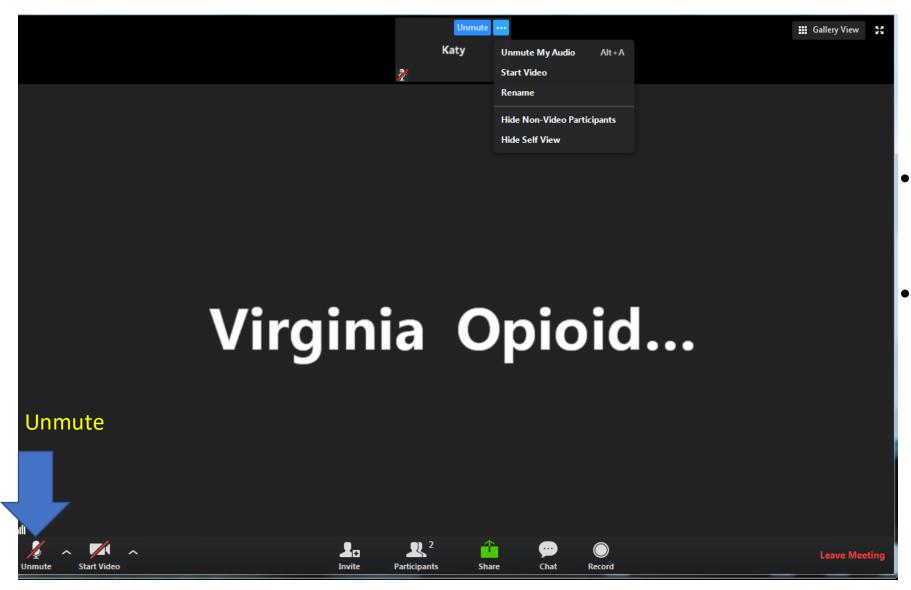
# Virginia Opioid...





 Rename your Zoom screen, with your name and organization

#### **Helpful Reminders**



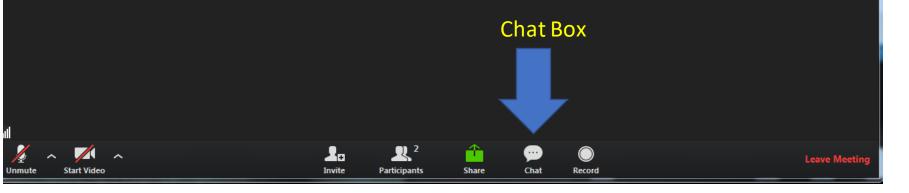


- You are all on mute please unmute to talk
  - If joining by telephone audio only, \*6 to mute and unmute

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	Hide Non-Video Participants		
	Hide Self View		

# Virginia Opioid...





- Please type your full name and organization into the chat box
- Use the chat function to speak with IT or ask questions

VCU Opioid Addiction ECHO Clinics



#### WDH<sup>VIRGINIA</sup> VDHLiveWell.com

VCU School of Medicine

- Bi-Weekly 1 hour tele-ECHO Clinics
- Every tele-ECHO clinic includes a 30 minute didactic presentation followed by case discussions
- Didactic presentations are developed and delivered by inter-professional experts
- Website Link: <u>www.vcuhealth.org/echo</u>

#### **Hub and Participant Introductions**



VCU Team		
Clinical Director	Gerard Moeller, MD	
Administrative Medical Director ECHO Hub	Vimal Mishra, MD, MMCi	
Clinical Experts	Lori Keyser-Marcus, PhD Courtney Holmes, PhD Albert Arias, MD Megan Lemay, MD Katie Adams, PharmD	
Didactic Presentation	Arthur Calloway, DO	
Program Manager	Bhakti Dave, MPH	
Acute Telehealth Manager	Tamera Barnes, MD	
IT Support	Vladimir Lavrentyev, MBA	

- Name
- Organization

# Reminder: Mute and Unmute screen to talk

\*6 for phone audio Use chat function for Introduction

#### What to Expect



- I. Didactic Presentation I. Arthur Calloway, DO
- II. Case presentations
  - I. Case 1
    - I. Case summary
    - II. Clarifying questions
    - III. Recommendations
- III. Closing and questions







# Disclosures

#### Arthur Calloway, DO has no financial conflicts of interest to disclose.

There is no commercial or in-kind support for this activity.



# PSYCHIATRIC RISKS OF CANNABIS ABUSE

ARTHUR CALLOWAY DO PGY4 VCUHS

### **OVERVIEW**

- Discuss the implications of cannabis abuse in developing or worsening mood, anxiety, and psychotic disorders

- Summarize recommendations for using cannabinoids in various psychiatric disorders
- Discuss a case of presumed delta-8-THC induced psychosis

# CANNABIS USE AND MAJOR DEPRESSIVE DISORDER (MDD)

- Most evidence suggests harmful effects of cannabis use in MDD
- 40-year study that analyzed > 400 individuals found that cannabis use was correlated with an increased risk of being diagnosed with MDD. Earlier onset of cannabis use was correlated with a shorter time to presentation with MDD (Schoeler et al, 2018)

### CANNABIS USE AND MDD

- One study found an association between MDD and cannabis only in patients with CUD, whereas others found an association in weekly use
- Despite substantial evidence for cannabis having harmful effects on depressive outcomes, some studies found no correlation between cannabis use and MDD diagnosis or symptom severity after controlling for confounders

### CANNABIS USE AND MDD- SUMMARY

- Literature suggests more evidence for harm than therapeutic benefit with cannabis use in MDD
- To better understand the association between cannabis use and MDD, may be beneficial to more carefully investigate extent of cannabis use (frequency, potency, CBD/THC ratio)

# CANNABIS USE AND BIPOLAR DISORDER (BD)

• Like MDD most evidence suggests harmful effects of cannabis use in BD

 A nationally representative sample of 40,000 individuals (NESARC) found cannabis use to be associated with an increased risk of BD onset (Cougle et al, 2015)

### CANNABIS USE AND BD CONTINUED

- Some studies show that higher frequency cannabis use potentiates the risk for developing BD and worsening symptomatology including suicide risk
- Other studies suggest cannabis use is predictive of longer affective episodes, more frequent rapid cycling, lower remission rates, and lower clinical and functional recovery
- There are few studies that suggest no significant relationship between cannabis use and BD outcomes

### CANNABIS USE AND BD SUMMARY

• Literature indicates there are more harms than benefits associated with chronic cannabis use in BD symptomatology and disease progression

 Like MDD, more research is needed to understand the relationship between cannabis use and BD

### CANNABIS USE AND ANXIETY DISORDERS

 Significant evidence for an association between cannabis use, agoraphobia, and social anxiety disorder (SAD)

 A significant association was observed between daily cannabis use and SAD in a nationally representative study (Feingold et al, 2016)

#### CANNABIS USE AND ANXIETY DISORDERS

• Mixed findings on the effects of cannabis use across all anxiety disorders

• Research regarding generalized anxiety disorder (GAD) ranges from no significant association with cannabis use to two-fold increased risk

# CANNABIS USE AND ANXIETY DISORDERS- PTSD

- Research shows a strong positive association between PTSD symptom severity and daily cannabis use
- Most research supports the association of cannabis use and increased likelihood of presenting with PTSD symptoms, heightened negative affect, and improvement in symptoms upon cessation

#### CANNABIS USE AND ANXIETY DISORDERS- PTSD SUMMARY

• No association between cannabis use and PTSD development

 Some harmful effects from cannabis use on psychiatric outcomes in PTSD and nonsignificant associations between cannabis use and PTSD symptomatology

### CANNABIS USE AND PSYCHOTIC DISORDERS

- Cannabis use is associated with increased vulnerability toward developing psychotic illness
- A longitudinal study with over 50,000 male participants found that those who smoked cannabis by age 18 had twice the risk of being diagnosed with schizophrenia, while those who used cannabis chronically had six times the risk compared with non-users (Andreasson et al, 1987)

#### CANNABIS USE AND PSYCHOTIC DISORDERS SUMMARY

 Across multiple studies, cannabis use has been correlated with earlier onset of psychosis, increased symptom severity, higher rates of relapse, longer hospitalization time, poorer illness outcomes, and poorer quality of life outcomes

# USE OF CANNABIS FOR PSYCHIATRIC DISORDERS

• No evidence for positive influence of cannabis in depression and no evidence of any therapeutic effect with cannabis use in BD, except for acute relief shortly after use

 No clear evidence for therapeutic benefit of cannabis across anxiety disorders despite self-reported claims

# USE OF CANNABIS FOR PSYCHIATRIC DISORDERS

- There is some evidence supporting a therapeutic role for specifically cannabidiol (CBD) in schizophrenia.
- A recent trial suggests administering 1000mg CBD daily for six weeks alongside current antipsychotics potentially reduces positive symptoms as rated by the Positive and Negative Symptom Scale (PANSS), as well as improves self-reported and clinician-reported functional outcomes in schizophrenia compared to placebo (McGuire et al 2019)

# USE OF CANNABIS FOR PSYCHIATRIC DISORDERS

 A systematic review of the therapeutic potential of CBD and higher CBD cannabis preparations for psychosis and schizophrenia describes a promising future with effective and tolerable results so far (Iseger and Bossong 2015)

 19-year-old woman with no past psychiatric history or past medical history presented to the emergency department for strange behavior for six days after consuming delta 8 THC gummies. Prior to consuming the delta 8 THC gummies she endorsed being her usual good state of health and notably she reported this was her first-time trying delta 8 THC

 Upon presenting to the hospital her blood pressure was 111/78, heart rate 98, respiratory rate 22, temperature 98.6 degrees Fahrenheit, and oxygen saturation of 100%. Lab work was pertinent for mild anemia (hemoglobin 10.6), negative pregnancy test, and notably negative urine drug screen including cannabinoid screening

 She reported smoking cannabis three times in the past as well as sporadic use of alcohol and nicotine but denied ever using any other illicit drugs. She denied taking any medications. She reported having a maternal uncle with alcoholism and cousin with depression. She reported remote, limited and previously unreported non-suicidal selfharm behaviors in her early teen. She denied having a personal or family history of attempted or completed suicide

 During the six days after consuming the delta-8-THC gummy and prior to coming to the emergency department, she endorsed symptoms of derealization, intense fear, paranoia, insomnia, along with both auditory and visual hallucinations during the interim period. During the time prior to presentation to the hospital, the young woman wandered away from their friend group and began having thoughts of wanting to run into moving traffic, swerve and wreck her car, and followed a command from God instructing her to walk into a river

- While in the emergency department she received 4mg of Ondansetron in the emergency department for nausea but was medically cleared and subsequently admitted voluntarily to an inpatient psychiatric facility
- Upon admission to the psychiatric facility, she was cooperative but reported ongoing confusion, derealization, and expressed that she had experienced panic for the past week. She reported having increased energy despite a decreased need for sleep since taking the delta-8-THC gummy. She endorsed a vague sense of feeling unsafe in the community and then suddenly became quiet and tearful. She was guarded and had an anxious affect at the time of admission. However, the first night after being admitted she was observed sleeping for eight hours without receiving any medication. Within one day of being admitted to the psychiatric facility and one week after consuming the delta-8-THC, she appeared significantly less anxious and paranoid. She requested discharge from the facility



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# Case Presentation #1

PHI

**NCU** 

- 12:35-12:55 [20 min]
  - 5 min: Presentation
  - 2 min: Clarifying questions-Spokes
  - 2 min: Clarifying questions Hub
  - 2 min: Recommendations Spokes
  - 2 min: Recommendations Hub
  - 5 min: Summary Hub

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# **Case Studies**

- Case studies
  - Submit: <u>www.vcuhealth.org/echo</u>
  - Receive feedback from participants and content experts
  - Earn **\$100** for presenting

# Thank You

The success of our telehealth program depends on our participants and those who submit case studies to be discussed during clinics. We recognize the following providers for their contributions:

- · Ademola Adetunji, NP from Fairfax County CSB
- Tara Belfast-Hurd, MBA-PA from Department of Behavioral Health and Developmental Services
- Michael Bohan, MD from Meridian Psychotherapy
- Ramona Boyd, NP from Health Wagon
- Diane Boyer, DNP from Region Ten CSB
- Melissa Bradner, MD from VCU Health
- Kayla Brandt, B.S. from Crossroads Community Service Board
- Candace Fletcher, PharmD Candidate from Hopkins Medical Association
- Susan Cecere, LPN from Hampton Newport News
- Kimberly Dexter, DNP from Hampton Newport News CSB
- Shokoufeh Dianat, DO, MAS from Virginia League from Planned Parenthood
- Candace Fletcher, PharmD from Hopkins Medical Association
- Michael Fox, DO from VCU Health
- Shannon Garrett, FNP from West Grace Health Center
- LaShawna Giles, MSW from Hampton Newport News CSB
- Sharon Hardy, BSW, CSAC from Hampton-Newport News CSB
- Kara Howard, NP from Southwest Montana Community Health Center
- Sunny Kim, NP from VCU Health
- Heidi Kulberg, MD from Meridian Health
- Thokozeni Lipato, MD from VCU Health
- Caitlin Martin, MD from VCU Health
- Jennifer Melilo, FNP from Chesapeake Integrated Behavioral Health
- Dawn Merritt, QMHP from Eastern Shore CSB
- Maureen Murphy-Ryan, MD from AppleGate Recovery
- Faisal Mohsin, MD from Hampton-Newport News CSB
- Jeromy Mullins, PharmD Candidate from Hopkins Medical Association
- Stephanie Osler, LCSW from Children's Hospital of the King's Daughters
- Davina Pavie, QMHP from Hanover County CSB
- Winona Pearson, LMSW from Middle Peninsula Northern Neck CSB
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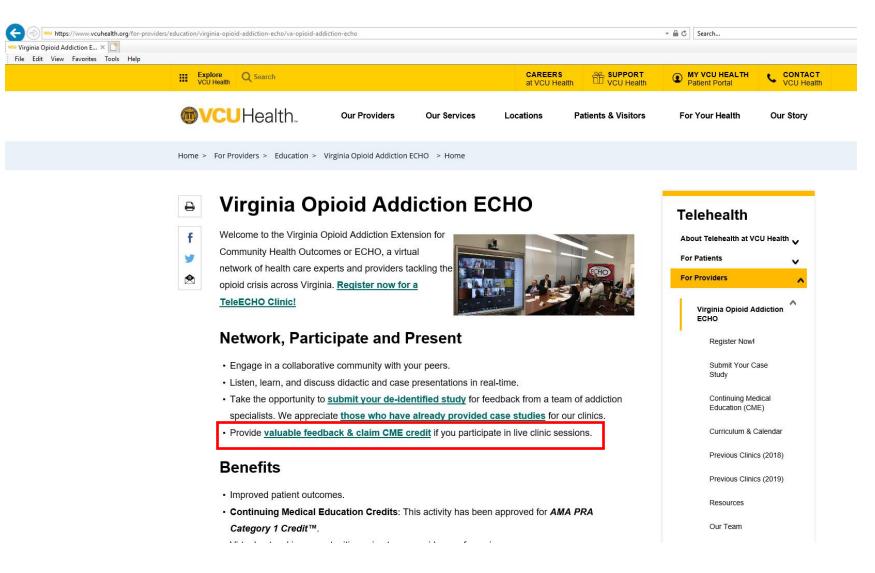
Project ECHO® Virginia Commonwealth University

- Jennifer Phelps, BS, LPN from Horizons Behavioral Health
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- Amber Sission, QMHP from Eastern Shore CSB
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- Michelle Tanner, LPC from Hanover County CSB
- Barbara Trandel, MD from Colonial Behavioral Health
- Bill Trost, MD from Danville-Pittsylvania Community Service
- Art Van Zee, MD from Stone Mountain Health Services
- Ashley Wilson, MD from VCU Health
- Sarah Woodhouse, MD from Chesterfield Mental Health
- Susan Mayorga, BA, CBIS from Community Health Center of the New River Valley
- Jordan Siebert, Peer Recovery Specialist from Daily Planet Health Services

Claim Your CME and Provide Feedback



- <a>www.vcuhealth.org/echo</a>
- To claim CME credit for today's session
- Feedback
  - Overall feedback related to session content and flow?
  - Ideas for guest speakers?







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	Please help us serve you better and learn more about your m Addiction ECHO (Extension of Community I	eeds and the value of the Virginia Opioi lealthcare Outcomes).	4	
	First Name * must provide value			
	Last Name * must provide value			
	Email Address * must provide value			
	I attest that I have successfully attended the ECHO Opioid Addiction Clinic.	Yes		
	* must provide value	No	reset	
	, learn more about Project ECHO  Watch video			
	How likely are you to recommend the Virginia Opioid Addiction ECHO by VCU to colleagues?	Very Likely		
		Likely		
		Neutral		
		Unlikely		
		Very Unlikely	reset	
	What opioid-related topics would you like addressed in	the future?		
	What non-opioid related topics would you be interested	in?		



- <u>www.vcuhealth.org/echo</u>
  - To view previously recorded clinics and claim credit

Education	Previous Clinics - 2021
Contact Us	Review topics we covered in previous Virginia Opioid Addiction ECHO clinics.
Diabetes and Hypertension Project ECH0 +	<b>January 15, Buprenorphine Taper</b> Presented by Masaru Nishiaoki, MD
Nursing Home ECHO +	View Presentation     View Video
Palliative Care ECHO +	January 29, Panel Discussion: COVID and Chronic Conditions
Virginia Opioid Addiction ECHO –	Panelists: Albert Arias, MD, Alex Krist, MD and Katherine Rose, MD
	View Presentation
Contact Us	View Video
Curriculum Calendar and Registration	February 12, Grief Impacting Recovery Presented by Courtney Holmes, PhD
Our Team	View Presentation
	Video Video
Previous Clinics - 2021	February 26, Virginia Drug Court System
Previous Clinics - 2022	Presented by Melanie Meadows
	View Presentation
Resources	View Video
Thank You	March 12, COVID and Recovery: Panel Discussion
	Presented by Tom Bannard, MBA Omri Morris, CPRS Raymond Barnes, CPRS Erin Trinh, CPRS
Virginia Opioid Addiction ECHO Continuing Medical	View Presentation
Education	View Video
Virginia Opioid Addiction ECHO Evaluation	March 26, Effects of Pharmacology on Cognitive Function
Virginia Sickle Cell Disease ECHO +	Presented by Gerry Moeller, MD
-	View Presentation
Child Abuse Project ECHO +	View Video     View Resource
	• View Resource
Early Intervention Project ECH0 +	April 9, PropER Clinic and SUD Virtual Bridge Clinic: Linking Patients from ED to PCP and SUD Care
	Presented by Taruna Aurora, MD and Brandon Wills, MD



#### **OVCU**

#### View Presentation

View Video

VCU Virginia Opioid Addiction TeleECHO Clinics

#### Bi-Weekly Fridays - 12-1:00 pm

#### Mark Your Calendar --- Upcoming Sessions

March 18: Behavioral Health Treatment for SUD

April 1: Macrodosing for Buprenorphine

Sarah Meshberg-Cohen, PhD

Brandon Wills, MD

Please refer and register at vcuhealth.org/echo







#### THANK YOU!

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