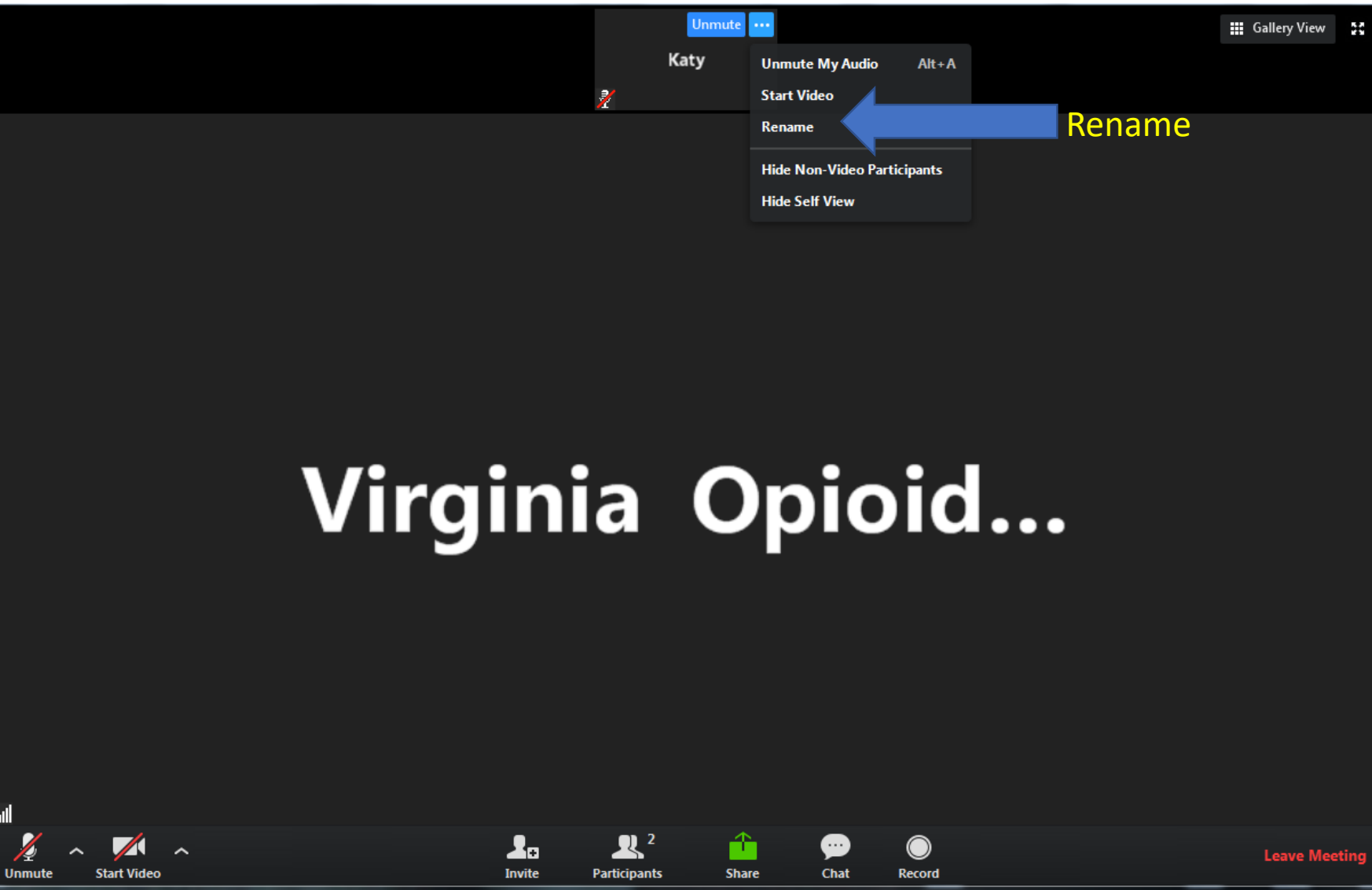


Virginia Opioid Addiction ECHO* Clinic

January 17, 2019

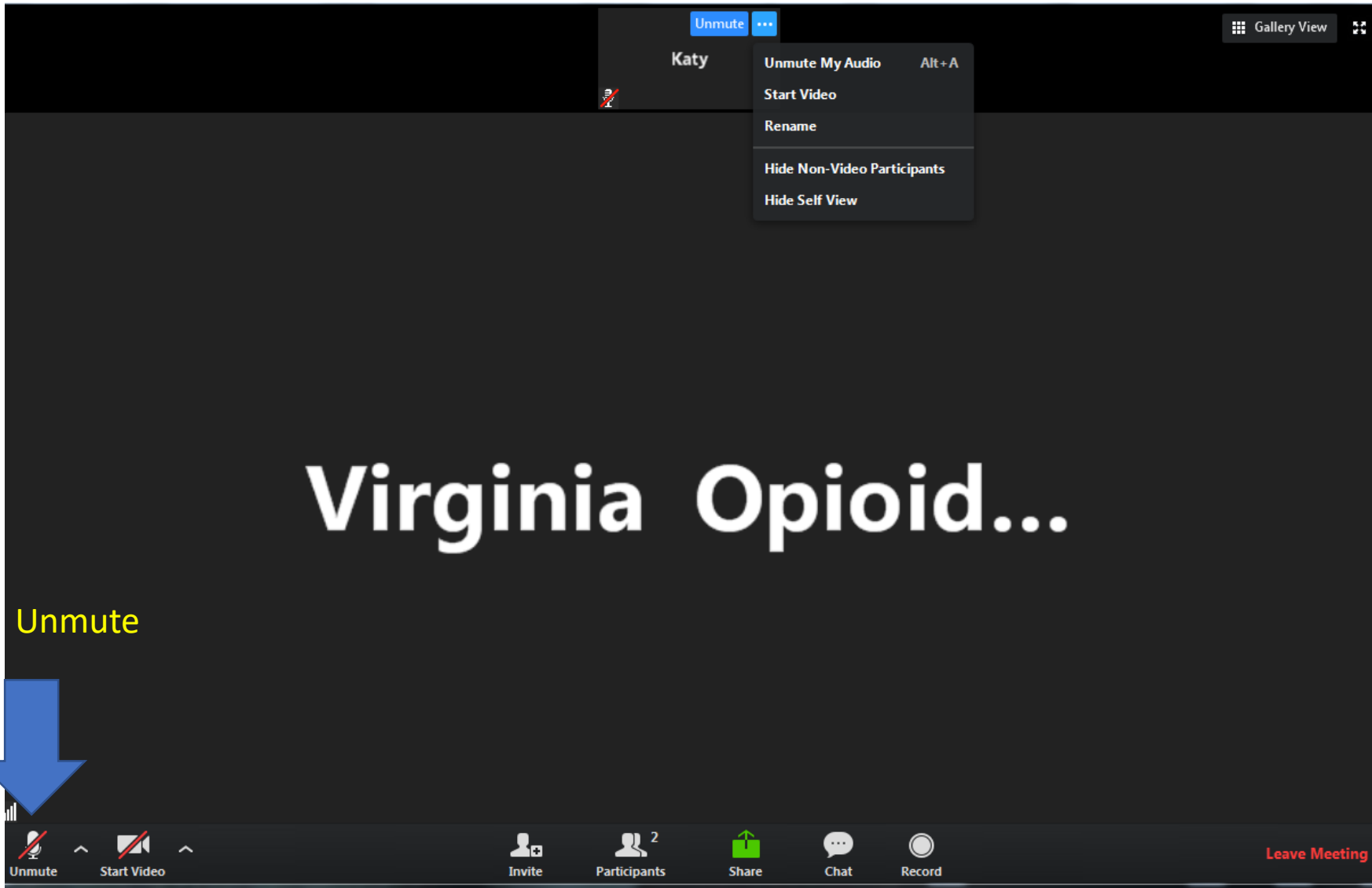
*ECHO: Extension of Community Healthcare Outcomes

Helpful Reminders



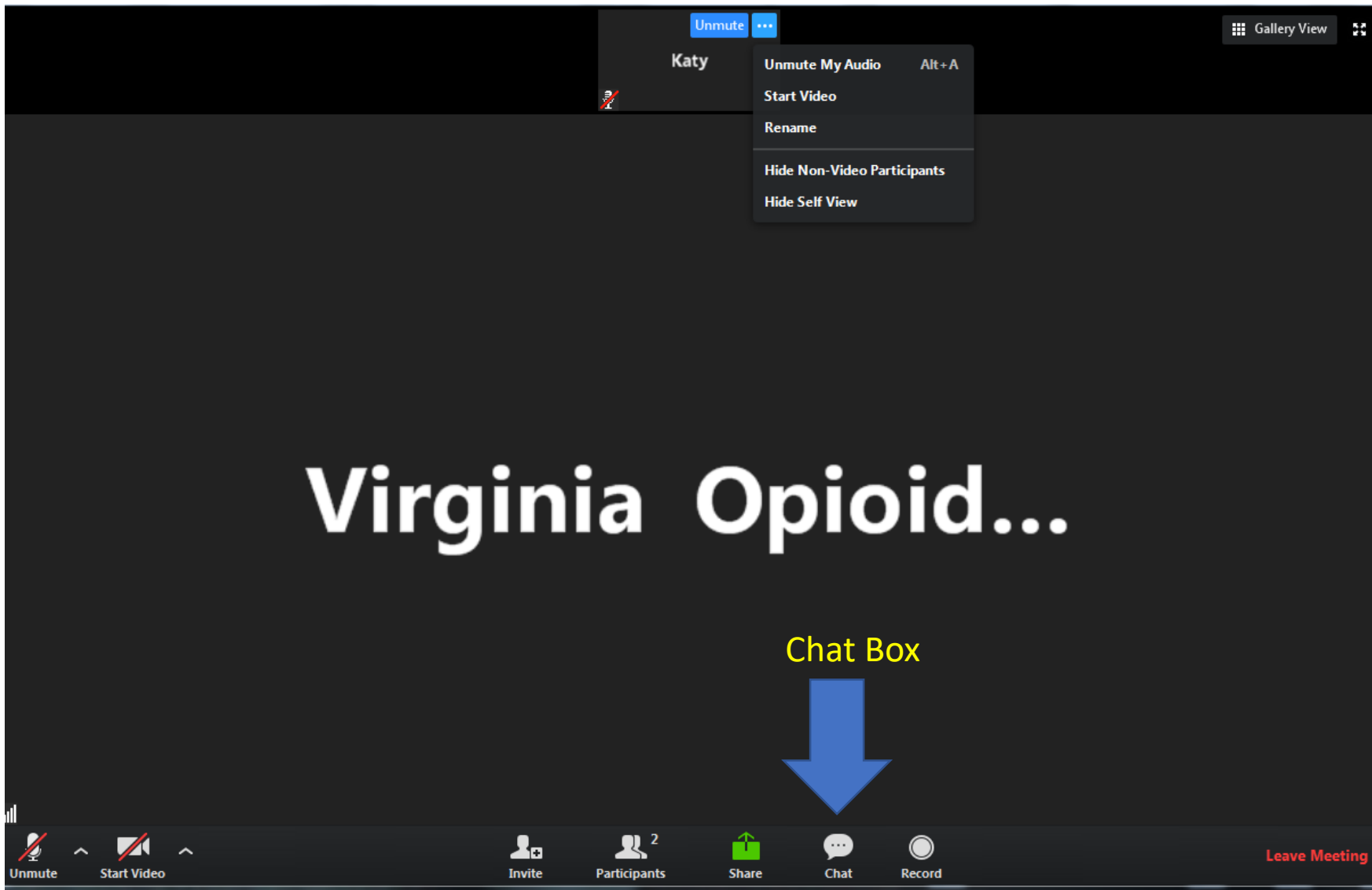
- Rename your Zoom screen, with your name and organization

Helpful Reminders



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

Helpful Reminders



- 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



- Bi-Weekly 1.5 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: www.vcuhealth.org/echo

Hub Introductions



VCU Team

Clinical Director	Gerard Moeller, MD
Administrative Medical Director ECHO Hub and Principal Investigator	Vimal Mishra, MD, MMCI
Clinical Expert	Lori Keyser-Marcus, PhD Courtney Holmes, PhD Albert Arias, MD Kanwar Sidhu, MD
Didactic Presentation	Megan Lemay, MD
Program Manager	Bhakti Dave, MPH
Practice Administrator	David Collins, MHA
IT Support	Vladimir Lavrentyev, MBA

Introductions:

- Name
- Organization

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for Introduction

What to Expect

- I. Didactic Presentation
 - I. Megan Lemay, MD**
- II. Case presentations
 - I. Case 1
 - I. Case summary
 - II. Clarifying questions
 - III. Recommendations
 - II. Case 2
 - I. Case summary
 - II. Clarifying questions
 - III. Recommendations
- III. Closing and questions



Lets get started!

Didactic Presentation



Disclosures

Megan Lemay, MD has no financial conflicts of interest to disclose.

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

THC and CBD: Review of Evidence for Clinical Efficacy and Safety

Megan Lemay, MD

1/17/2020



Objectives

1. Discuss the sources of evidence and formulations of cannabis which have been studied
2. Review the evidence for THC and CBD to treat specific conditions
3. Discuss the known safety and side effects of THC and CBD
4. Briefly review the state of medical cannabis in Virginia



HEALTH BENEFITS OF CBD OIL



ASTHMA

CBD has potent immunosuppressive and anti-inflammatory properties



CANCER

Cannabinoids may have benefits in the treatment of cancer-related side effects



BRAIN

Anti-Anxiety, Anti-Depressant, Antioxidant, Neuroprotective



WELL BEING

Helps to relax and to calm body and mind



SPINAL CORD INJURY

Studies have not only demonstrated CBD's pain-killing properties, but also its ability to reduce spasms and improve motor function in SCI patients



BONE STRUCTURE

CBD works by improving bone density and reducing the occurrence of bone diseases. It strengthens the collagen "bridge" that forms at the site of the break which then hardens with the new bone



EYES

Compounds found in CBD feature neuro protection and vasodilation properties which further assist in the conservation and treatment of glaucoma



HEART

Anti-Inflammatory, Atherosclerosis, and Anti-Ischemic



INTESTINES

Cannabidiol reduces intestine inflammation through the control of the neuroimmune system



STOMACH

Antiemetic, Appetite Control



BUYING CBD OIL

Discover safe, effective, and top-rated CBD products at PopularCBDBrands.com



Mr. Jones

- Mr. Jones is a 35 year old man with no significant past medical history who presents to you for treatment of anxiety. He reports symptoms of anxiety affecting his work as a medical assistant and his relationships. He has had a few sessions of talk therapy free through his work which have helped his symptoms slightly.
- He has heard that THC and CBD oil can be helpful to treat all kind of things from diabetes to anxiety and asks you to certify him to receive this treatment

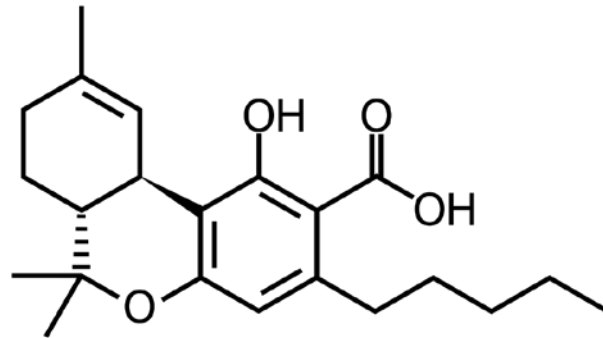


Formulations Studied

Nabiximols	Cannabidiol (CBD)	Cannabis	Dronabinol	Nabilone
Each mL contains 27 mg THC and 25 mg CBD, Oromuscosal Spray	Extracted from flowers and leaves of the C. sativa plant. Non-psychoactive	Numerous active cannabinoids including THC and CBD	Synthetic THC	Synthetic cannabinoid derivative mimicking THC

THC-A

- Tetrahydrocannabinolic acid
- Precursor of THC (tetrahydrocannabinol) (activated by heat)
- Non psycho-active



Key Reviews



Whiting, et al, JAMA 2015

- **Cannabinoids for Medical Use: A Systematic Review and Meta-analysis**
- 79 trials with 6462 participants evaluating Chemotherapy-induced nausea and vomiting, chronic pain, MS spasticity, HIV/AIDS, sleep disorders, psychosis, Tourette syndrome, anxiety, and glaucoma



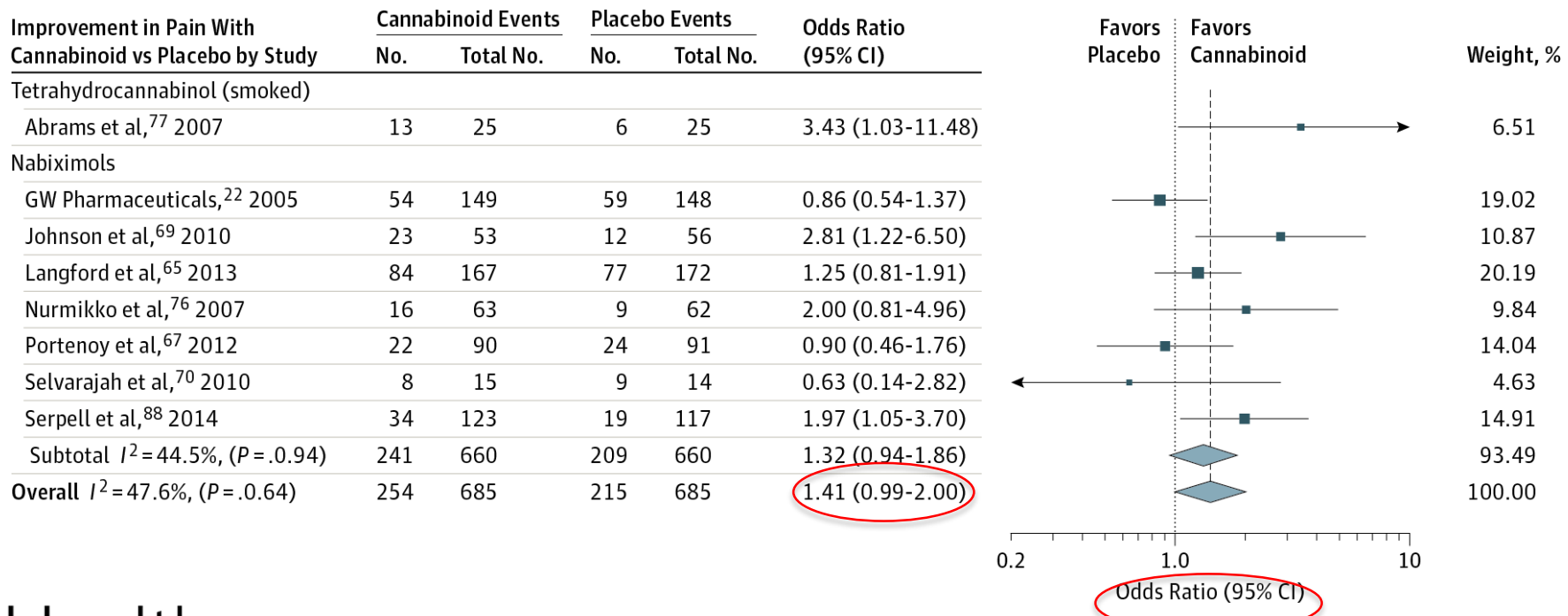
US National Academies of Sciences, Engineering, and Medicine, (NASEM) 2017

- **The Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research**
- chronic pain; cancer; nausea and vomiting produced by cancer therapy; appetite stimulation in HIV/AIDS, cancer and anorexia nervosa; irritable bowel syndrome; epilepsy; spasticity in MS and spinal cord injury; Tourette syndrome; amyotrophic lateral sclerosis; Huntington's disease; Parkinson's disease; dystonia; Alzheimer's disease; glaucoma; traumatic brain injury and spinal cord injury; addiction; anxiety disorders; depressive disorders; sleep disorders; post-traumatic stress disorder; and schizophrenia

Chronic Pain

- Whiting Review

- 28 trials with 2,454 participants
- 13 studies used nabiximols and the remainder used THC or THC derivatives (none with CBD alone)
- Conditions were almost all neuropathic pain conditions (one study for RA, one for MSK pain). Outcome was 30% reduction in chronic pain.



Chronic Pain

- NASEM
 - Relied heavily on Whiting Review
 - Two studies published on inhaled cannabis since Whiting: One found a dose-related reduction in pain; the other did not.
- **Conclusion: conclusive or substantial evidence that cannabis or cannabinoids are effective for the treatment for chronic pain in adults**

Chronic Pain

- Newer meta-analysis of 91 studies
 - Reduction of pain on 30% with OR 1.46
 - NNT 24
 - NNH 6

Individual AEs				
Dizziness	23 (3879) 1,4,8,14,19,40,49-51,54,56,66,68,72,74,80,83,86,90,98-100	OR 5.52 (4.47-6.83)	0%	⊕⊕○○ Low
Depressed mood	6 (1470) ^{4,19,40,49,72,74}	OR 1.60 (1.04-2.48)	0%	⊕⊕○○ Low
Anxiety	2 (301) ^{1,72}	OR 2.45 (0.46-12.96)	0%	⊕○○○ Very low
Cognitive or attention disturbance	11 (1946) ^{19,40,49,51,56,66,72,74,86,99}	OR 5.67 (2.72-11.79)	0%	⊕⊕○○ Low
Nausea	14 (2381) ^{8,14,18,40,49-51,54,56,66,68,72,80,83,86}	OR 2.28 (1.73-3.00)	0%	⊕⊕○○ Low
Vomiting	8 (1317) ^{8,40,49-51,56,66,72}	OR 1.57 (0.98-2.52)	0%	⊕⊕⊕○ Moderate
Diarrhoea	10 (2099) ^{4,19,40,49,51,54,56,66,72,86}	OR 1.26 (0.90-1.76)	17%	⊕⊕○○ Low
Constipation	7 (1604) ^{4,8,19,50,72,99}	OR 1.32 (0.84-2.07)	0%	⊕⊕○○ Low
Drowsiness	18 (2724) ^{8,14,19,40,49-51,54,56,66,72,74,83,86,98,99}	OR 2.18 (1.59-2.98)	42%	⊕⊕○○ Low
Thought disturbance	6 (539) ^{49,51,72,74,98}	OR 7.35 (1.95-27.72)	0%	⊕○○○ Very low
Insomnia	6 (582) ^{40,49-51,74,83}	OR 0.23 (0.07-0.76)	0%	⊕⊕○○ Low
Confusion and disorientation	7 (984) ^{19,49-51,72,74,86}	OR 5.35 (2.31-12.39)	0%	⊕⊕○○ Low
Intoxication	10 (1476) ^{40,46-51,66,72,74,83,86}	OR 3.44 (1.74-6.83)	0%	⊕⊕○○ Low
Appetite change	7 (626) ^{19,50,56,66,72,74,83}	OR 3.00 (1.37-6.57)	0%	⊕⊕○○ Low
Cardiovascular symptoms	4 (667) ^{8,49,66,72}	OR 0.80 (0.28-2.30)	0%	⊕⊕○○ Low
Respiratory tract infections	7 (1384) ^{40,49,50,54,56,66,72}	OR 1.06 (0.63-1.78)	0%	⊕⊕○○ Low
Dry mouth	19 (3117) 8,10,14,18,19,40,49-51,54,56,66,68,72,74,80,83,99,100	OR 3.63 (2.61-5.05)	0%	⊕⊕○○ Low
Headaches and migraines	17 (2428) ^{8,19,40,49-51,54,56,66,68,72,74,83,86,98,100}	OR 0.86 (0.64-1.15)	0%	⊕⊕○○ Low

Chronic Pain

- CBD
 - CBD has been shown to be ineffective for Crohn's colitis pain and chronic neuropathic pain
 - Could help with cancer-related pain (combined with THC)

Chemotherapy-induced Nausea and Vomiting

- Whiting Review
 - 28 trials of various mostly oral cannabinoids vs placebo or conventional anti-emetics
 - Most showed superiority to placebo and were as good or better than conventional anti-emetics
- Cochrane Review 2015
 - 23 trials, 19 of which were crossover studies
 - cannabinoids were more effective than placebo and similar in effectiveness to conventional anti-emetics
 - cannabinoids caused more adverse events, including dizziness, dysphoria, and euphoria

Chemotherapy-induced Nausea and Vomiting

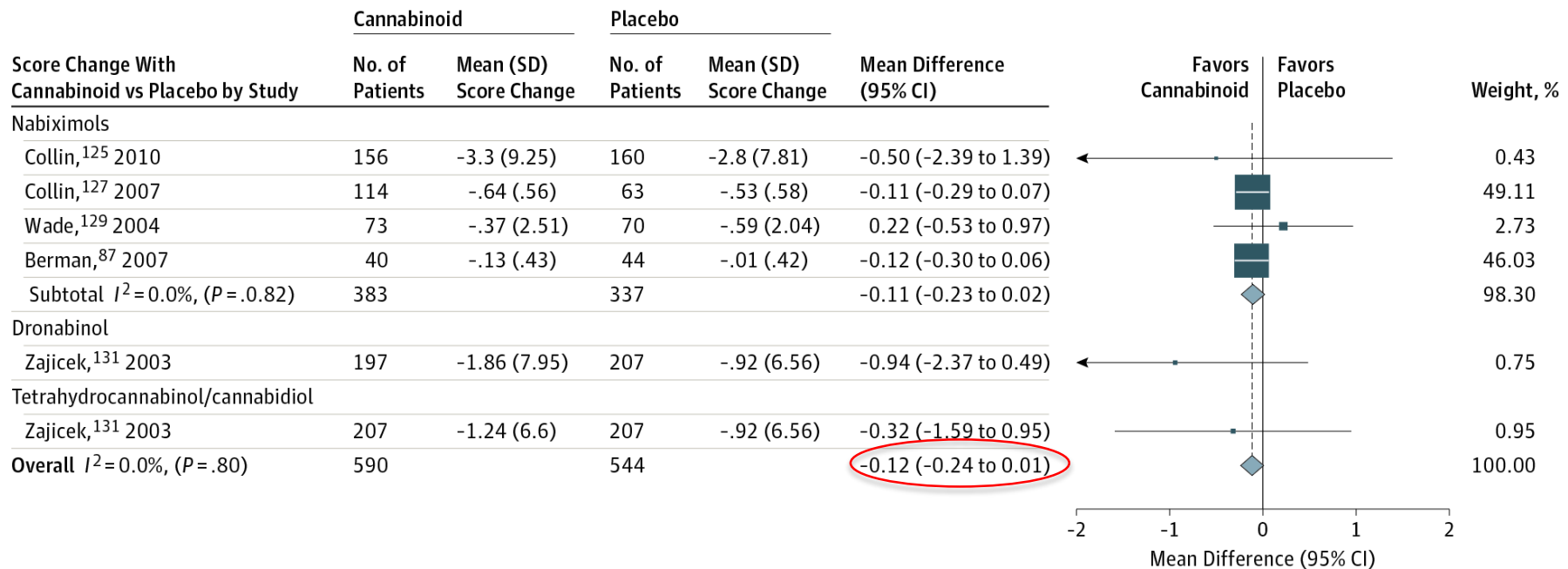
CBD

- No human studies evaluating the anti-emetic or appetite-stimulant effects of CBD alone

Multiple Sclerosis Spasticity

• Whiting Review

- 11 parallel group studies of nabilone and nabiximols in patients with MS
- associated with a greater average improvement in spasticity assessed using numerical rating scales (mean difference, -0.76 [95% CI, -1.38 to -0.14])
- Insufficient evidence in spasticity from spinal-cord injuries
- Objective physician-measured scales of spasticity did not reach statistical significant improvement



Multiple Sclerosis Spasticity

- Systematic Review 2014, Koppel et al, for selected neurologic disorders
 - 14 studies in patients with MS that oral cannabinoids and nabiximols
 - Cannabinoids are 'probably effective in reducing severity of patient-rated spasticity but not physician-rated symptoms'.

Multiple Sclerosis Spasticity

CBD

There are no human studies of CBD alone for the treatment of MS spasticity, though there are some animal studies and proposed mechanisms that it may be helpful

Specific Seizure Syndromes

- Dravet Syndrome- FDA approved indication- Epidiolex oral solution
 - complex childhood epilepsy disorder that is associated with drug-resistant seizures and a high mortality rate
 - CBD 20 mg/kg oral solution in addition to standard AED's (n 120)
 - The median frequency of convulsive seizures per month decreased from 12.4 to 5.9 with cannabidiol, as compared with a decrease from 14.9 to 14.1 with placebo
 - Increase adverse events in CBD group: diarrhea, vomiting, fatigue, pyrexia, somnolence, and abnormal results on liver-function tests



Devinsky NEJM 2017, CBC News

Specific Seizure Syndromes

- Lennox-Gastaut Syndrome
 - rare, severe form of epileptic encephalopathy, are frequently treatment resistant to available medications
 - Decrease incidence of drop seizure attacks with CBD 20 mg/kg/day
 - Adverse affects slightly more common in the CBD group diarrhea, somnolence, pyrexia, decreased appetite, and vomiting
 - FDA approved

Anxiety

- Whiting and NASEM reviewed only one RCT of 24 patients with treatment-naïve social-anxiety disorder
 - Decreased anxiety in a simulated public speaking exercise with 600 mg CBD
- Other studies failed to show an effect on public-speaking anxiety with 150 or 300 mg of CBD
- Basic science research shows a potential physiologic basis for anxiolysis
- NASEM also notes a moderate probability of cannabis being associated with development of generalized anxiety disorder

Additional Conditions with Limited Evidence

Condition	Evidence
Appetite Stimulation	Limited evidence in HIV/AIDS, little to no evidence to support use in other conditions
Sleep	Limited evidence primarily with Nabiximols improving sleep quality as a secondary outcome in studies for MS and chronic pain
Tourette Syndrome	Limited evidence (36 total patients) showing decreased tics with THC capsules

Additional Conditions with Insufficient evidence for Efficacy

Condition	Evidence
Epilepsy	Insufficient evidence for efficacy
Depression	Insufficient evidence for efficacy
Anxiety	Insufficient evidence for efficacy
Psychosis	Insufficient evidence for efficacy
Glaucoma	Insufficient evidence for efficacy

Condition	Evidence	Conditions with <u>insufficient</u> <u>evidence</u>	
Chronic Neuropathic Pain	●		
Chemotherapy-Induced Nausea and Vomiting	●		
MS Spasticity	●		
Dravet and Lennox-Gastaut - CBD	●		
HIV/AIDS Appetite Stimulation	●		
Sleep Disorders	●		
Tourette Syndrome	●		
Other Chronic Pain Conditions	●		
		Crohn's Disease, Diabetes, Dystonia, GVHD, Huntington's Disease, Parkinson's disease, smoking cessation, social anxiety disorder, epilepsy, anxiety, glaucoma, opioid withdrawal, Alzheimer's Disease	●

Adverse Effects of Short-Term Cannabis Use

Impaired short-term memory

Impaired Motor Coordination

Altered Judgement

Paranoia

Psychosis

Adverse Effects of Long-Term or Heavy Cannabis Use

Addiction

Altered brain development/
Cognitive Impairment

Diminished Life Satisfaction and Achievement

Chronic Bronchitis
Cyclic Vomiting Syndrome

Association with depression, anxiety, and psychotic disorders



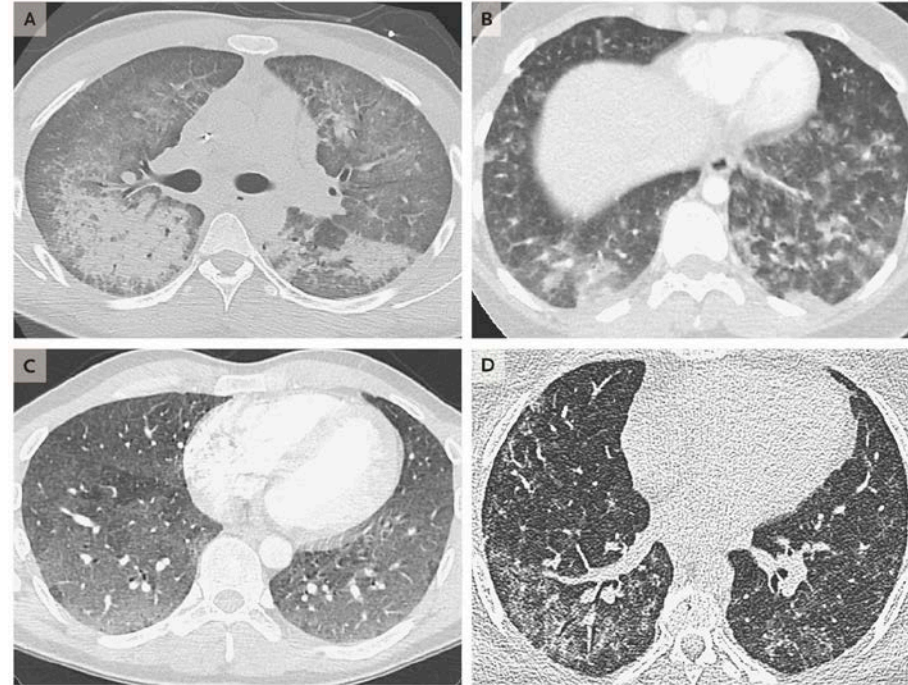
Table 2. Level of Confidence in the Evidence for Adverse Effects of Marijuana on Health and Well-Being.

Effect	Overall Level of Confidence*
Addiction to marijuana and other substances	High
Abnormal brain development	Medium
Progression to use of other drugs	Medium
Schizophrenia	Medium
Depression or anxiety	Medium
Diminished lifetime achievement	High
Motor vehicle accidents	High
Symptoms of chronic bronchitis	High
Lung cancer	Low

* The indicated overall level of confidence in the association between marijuana use and the listed effects represents an attempt to rank the strength of the current evidence, especially with regard to heavy or long-term use and use that starts in adolescence.

Lung Injury Related to E-cigarette Use or Vaping (EVALI)

- 2,602 hospitalized EVALI cases, 57 deaths (as of 1/7/20)
- Link to vitamin E acetate
- Most patients reported a history of using e-cigarette products containing THC.
- CDC recommends that you consider refraining from using e-cigarette or vaping products (especially those with THC).



CBD

- several in vitro and in vivo studies showing safety of CBD without effect on heart rate, blood pressure and body temperature, gastrointestinal transit, or alterations in psychomotor or psychological functions
- other studies have shown **possible orthostatic hypotension, dry mouth, diarrhea, vomiting, fatigue and elevated LFT's**
- may inhibit several cytochrome P450's enzymes



Variations in Products

- 84 products purchased online (not from pharmaceutical dispensaries)
 - 42% of doses were under-labeled
 - 29% over-labeled
 - THC present in 21% of samples



Medical Cannabis in Virginia

- Information from the Virginia Department of Health Professions, Board of Pharmacy
- Adapted from *Caroline D. Juran, Executive Director*

“DISCLAIMER: The federal Controlled Substances Act makes it a crime to lease, rent or maintain a place for the purpose of manufacturing, distributing or using marijuana (21 U.S.C. § 856), to engage in financial transactions to promote illegal activities (21 U.S.C. § 1957), and to conspire to commit such a crime (21 U.S.C. § 846).

This educational material does not constitute legal advice and does not express the views or opinions of VCU Health CME, VCU Health System”

- The information in the presentation is not legal advice and is not intended to be complete. Refer to the DHP website for complete information

The State of Medical Cannabis in Virginia

- Virginia State Assembly laws passed in 2018-2019 (including SB 1557) effective 7/1/2019
- Allowed the creation of five medical cannabis processing facilities and dispensaries across the state
- enables Virginians to access therapeutic strength, Board of Pharmacy regulated cannabis THC-A and CBD OIL products after receiving approval by a certified doctor, physicians assistant or nurse practitioner.
- The drug is not prescribed in the Commonwealth because marijuana remains illegal on a federal level. Law creates an “affirmative defense” if a patient is found in possession of cannabis

Conditionally Approved Dispensaries

HSA I = PharmaCann Virginia LLC

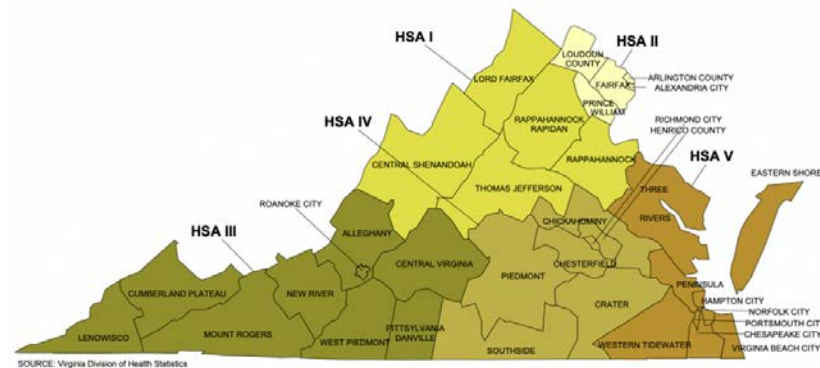
HSA II = Dalitso LLC

HSA III = Dharma Pharmaceuticals

HSA IV = Green Leaf Medical of Virginia LLC

HSA V = Columbia Care Eastern Virginia LLC

**HEALTH DISTRICTS AND HEALTH SERVICE AREAS
COMMONWEALTH OF VIRGINIA**



Written Certification

- §54.1- 3408.3(B) “A practitioner in the course of his professional practice may issue a written certification for the use of cannabidiol oil or THC-A oil for treatment or to alleviate the symptoms of any diagnosed condition or disease determined by the practitioner to benefit from such use.”
- "Practitioner" means a practitioner of medicine or osteopathy, nurse practitioner, or physician assistant

Affirmative Defense

- Law provides for an affirmative defense for a patient, parent/legal guardian to possess CBD oil or THC-A oil as defined in §54.1-3408.3
....who has been issued a valid written certification from a Board of Pharmacy-registered physician
....and who maintains a current registration with the Board of Pharmacy.

Practitioner Requirements (an INCOMPLETE list)

- Conduct an in person history and physical, access the PMP, diagnose the patient, and be available for follow up
- Be of the opinion that the potential benefits of cannabidiol oil or THC-A oil would likely outweigh the health risks of such use to the qualifying patient
- Explain proper administration, potential risks and benefits, prior to issuing the written certification;
- Issue no more than 600 written certifications
- Do NOT provide samples or provide certifications for co-workers, friends, or family members

Certifications

- Register with the Department of Health Professions <https://www.license.dhp.virginia.gov/apply/>
- You then may provide certifications to a patient
- \$50 initial fee and \$50 annual fee thereafter
- Patients also register online for a \$50 fee

What do we tell Mr. Jones?



Conclusions

1. There have been multiple formulations of cannabis studied with varied end points and outcomes
2. There is strong evidence for the use of cannabinoids to treat chronic neuropathic pain, chemotherapy-induced nausea and vomiting, and MS spasticity
3. Epidiolex is an oral CBD formulation which is FDA approved to treat Dravet and Lennox Gastaut syndromes
4. Cannabis use is associated with several adverse effects with short term and long-term use including addiction
5. CBD has limited evidence for safety in humans
6. Refer to the Virginia Department of Health Professions for additional information about medical cannabis in VA.



Questions?

References

1. Whiting PF, Wolff RF, Deshpande S, et al. Cannabinoids for Medical Use: A Systematic Review and Meta-analysis. *JAMA*. 2015;313(24):2456–2473. doi:10.1001/jama.2015.6358
2. [The Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research](#). 2017 Jan 12;. doi: 10.17226/24625. Review. PubMed PMID: 28182367.
3. Stockings E, Campbell G, Hall WD, et al. Cannabis and cannabinoids for the treatment of people with chronic noncancer pain conditions:
4. a systematic review and meta-analysis of controlled and observational studies. *Pain*. 2018;159(10):1932-1954. doi:10.1097/j.pain.0000000000001293
5. Darkovska-Serafimovska M, Serafimovska T, Arsova-Sarafinovska Z, Stefanoski S, Keskovski Z, Balkanov T. [Pharmacotherapeutic considerations for use of cannabinoids to relieve pain in patients with malignant diseases](#). *J Pain Res*. 2018;11:837-842. doi: 10.2147/JPR.S160556. eCollection 2018. Review. PubMed PMID: 29719417; PubMed Central PMCID: PMC5922297.
6. Naftali T, Mechulam R, Marii A, Gabay G, Stein A, Bronshtain M, Laish I, Benjaminov F, Konikoff FM. [Low-Dose Cannabidiol Is Safe but Not Effective in the Treatment for Crohn's Disease, a Randomized Controlled Trial](#). *Dig Dis Sci*. 2017 Jun;62(6):1615-1620. doi: 10.1007/s10620-017-4540-z. Epub 2017 Mar 27. PubMed PMID: 28349233.
7. Ben-Shabat S, Hanus LO, Katzavian G, Gallily R. [New cannabidiol derivatives: synthesis, binding to cannabinoid receptor, and evaluation of their antiinflammatory activity](#). *J Med Chem*. 2006 Feb 9;49(3):1113-7. doi: 10.1021/jm050709m. PubMed PMID: 16451075.
8. Rudroff T, Sosnoff J. [Cannabidiol to Improve Mobility in People with Multiple Sclerosis](#). *Front Neurol*. 2018;9:183. doi: 10.3389/fneur.2018.00183. eCollection 2018. PubMed PMID: 29623067; PubMed Central PMCID: PMC5874292.
9. Thiele EA, Marsh ED, French JA, Mazurkiewicz-Beldzinska M, Benbadis SR, Joshi C, Lyons PD, Taylor A, Roberts C, Sommerville K. [Cannabidiol in patients with seizures associated with Lennox-Gastaut syndrome \(GWPCARE4\): a randomised, double-blind, placebo-controlled phase 3 trial](#). *Lancet*. 2018 Mar 17;391(10125):1085-1096. doi: 10.1016/S0140-6736(18)30136-3. Epub 2018 Jan 26. PubMed PMID: 29395273.
10. Devinsky O, Cross JH, Laux L, Marsh E, Miller I, Nabbout R, Scheffer IE, Thiele EA, Wright S. [Trial of Cannabidiol for Drug-Resistant Seizures in the Dravet Syndrome](#). *N Engl J Med*. 2017 May 25;376(21):2011-2020. doi: 10.1056/NEJMoa1611618. PubMed PMID: 28538134.
11. Smith LA, Azariah F, Lavender VT, Stoner NS, Bettiol S. [Cannabinoids for nausea and vomiting in adults with cancer receiving chemotherapy](#). *Cochrane Database Syst Rev*. 2015 Nov 12;(11):CD009464. doi: 10.1002/14651858.CD009464.pub2. Review. PubMed PMID: 26561338.
12. Volkow ND, Baler RD, Compton WM, Weiss SR. [Adverse health effects of marijuana use](#). *N Engl J Med*. 2014 Jun 5;370(23):2219-27. doi: 10.1056/NEJMra1402309. Review. PubMed PMID: 24897085; PubMed Central PMCID: PMC4827335.
13. Koppel BS, Brust JC, Fife T, Bronstein J, Youssof S, Gronseth G, Gloss D. [Systematic review: efficacy and safety of medical marijuana in selected neurologic disorders: report of the Guideline Development Subcommittee of the American Academy of Neurology](#). *Neurology*. 2014 Apr 29;82(17):1556-63. doi: 10.1212/WNL.0000000000000363. Review. PubMed PMID: 24778283; PubMed Central PMCID: PMC4011465.
14. Bergamaschi MM, Queiroz RH, Zuardi AW, Crippa JA. [Safety and side effects of cannabidiol, a Cannabis sativa constituent](#). *Curr Drug Saf*. 2011 Sep 1;6(4):237-49. Review. PubMed PMID: 22129319.
15. Henry TS, Kanne JP, Kligerman SJ. [Imaging of Vaping-Associated Lung Disease](#). *N Engl J Med*. 2019 Sep 6;. doi: 10.1056/NEJMc1911995. [Epub ahead of print] PubMed PMID: 31491070.
16. Bonn-Miller MO, Loflin MJE, Thomas BF, Marcu JP, Hyke T, Vandrey R. [Labeling Accuracy of Cannabidiol Extracts Sold Online](#). *JAMA*. 2017 Nov 7;318(17):1708-1709. doi: 10.1001/jama.2017.11909. PubMed PMID: 29114823; PubMed Central PMCID: PMC5818782.
17. <https://www.dhp.virginia.gov/pharmacy/PharmaceuticalProcessing/Physicians.htm>

Case Presentation #1

Ademola Adetunji, NP

- 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



Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

Please state your main question(s) or what feedback/suggestions you would like from the group today?

Should I give suboxone to this client even though her UDS is negative for Opioid?

Case History

Attention: Please DO NOT provide any patient specific information nor include any Protected Health Information!

Demographic Information (e.g. age, sex, race, education level, employment, living situation, social support, etc.)

35 years old Caucasian female. unemployed, separated with 3 adult children, living with aged mother that kicked her out. Presented to Detoxification clinic requesting for suboxone.

Physical, Behavioral, and Mental health background information (e.g. medical diagnosis, reason for receiving opioids, lab results, current medications, current or past counseling or therapy treatment, barriers to patient care, etc.)

C/o using heroin and fentanyl about \$200 worth daily. Period of sobriety off/on. last use of opioid the morning before seen at the detoxification clinic.

H/o Opioid use started at age 21 years old after discontinued from prescribed Oxycodone for neck injury in MVA at age 19 years old.

Current medication: None

Labs: Urine drug screening negative for all substances

Reminder: **Mute** and **Unmute** to talk

*6 for phone audio

Use **chat** function for questions

What interventions have you tried up to this point ?
Additional case history (e.g. treatments, medications, referrals, etc.)

Treatment: Placed on Vistaril 25mg po q6H PRN x 7 days
Clonidine 0.1mg po BID PRN x 7 days
Melatonin 3mg (1-5 tabs) po qHS pRN x 7 days
Referral to pain management via community clinic
Referral to residential patient psychotherapy (CBT)
Referral to housing assistance program (County housing assistance program, Shelter, Salvation army housing)

What is your plan for future treatment? What are the patient's goals for treatment?

Follow up by phone call with patient, Community clinic provider, pain clinic.
Patient's goal for Treatment: Pain management without using Opioid

End of Case Study

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

Case Presentation #2

Saba Suhail, MD



- 12:55pm-1:25pm [20 min]
 - 5 min: Presentation
 - 2 min: Clarifying questions- Spokes (participants)
 - 2 min: Clarifying questions – Hub
 - 2 min: Recommendations – Spokes (participants)
 - 2 min: Recommendations – Hub
 - 5 min: Summary - Hub

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

Please state your main question(s) or what feedback/suggestions you would like from the group today?

What, if anything, could have been done differently for this patient?

Should he have been immediately dismissed, or offered another chance?

I would also like to troubleshoot how best to treat patients with substance abuse while also suffering from comorbidities, particularly in an area where opioids (and other controlled substances) are heavily prescribed (currently number one in the nation). How can we, as the patient's PCPs, reasonably accommodate patient goals and expectations, when the majority of these patients expect (or in some instances demand) controlled substances?

Case History

Attention: Please DO NOT provide any patient specific information nor include any Protected Health Information!

Demographic Information (e.g. age, sex, race, education level, employment, living situation, social support, etc.)

This is a 56 year old Caucasian male. He is currently unemployed, and is married. He lives in an apartment with another couple who manage his finances and ADLs. Social support includes his wife and father, as well as the other couple with whom he resides. He is without transportation.

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

Physical, Behavioral, and Mental health background information (e.g. medical diagnosis, reason for receiving opioids, lab results, current medications, current or past counseling or therapy treatment, barriers to patient care, etc.)

PMH:

-HTN, seizure D/O controlled, Bipolar disorder with depression currently well controlled, COPD, and chronic pain syndrome. He has a remote history of RCC with nephrectomy and prostatectomy.

Psych

- Bipolar disorder with depression. He is taking trileptal, saphris, depakote.
-Anxiety. He has been prescribed Klonopin, but is now on Xanax and Buspar
He denies inpatient psychiatric treatment. He does report a Family history of suicidal ideation without attempts.

Substance Abuse history:

ETOH: denies use

Heroin: denies use

Cocaine: denies use

Marijuana: denies use

Benzodiazepines: currently prescribed Xanax. Admits to taking Klonopin 5 weeks prior to PCP visit

Barbituates: denies use

Prescription meds: Pt is on norco for knee pain, back pain from injury when he was younger. He uses a cane due to knee issues. He has also been prescribed Neurontin

Tobacco: The patient has used tobacco for 40 years at a frequency of 1.5ppd.

Previously he was down to half pack a day using wellbutrin.

Labs results:

-PMP was checked at the last visit and was without concern--he apparently had his medication filled by the same provider consistently.

-Urine Drug Screen revealed methamphetamine, and additionally showed the absence/noncompliance of his chronic medications including hydrocodone, Xanax, wellbutrin

Barriers to patient care:

-lack of transportation

-lack of available resources (no pain management nearby, limited access to psychiatry in the region)

-ease of access to illicit substances

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

What interventions have you tried up to this point ?

Additional case history (e.g. treatments, medications, referrals, etc.)

The patient had been prescribed klonopin, Xanax, and Buspar for his anxiety, and was receiving hydrocodone for chronic low back pain and knee pain. He had previously been on wellbutrin and Chantix for tobacco use, as well as nicotine patches, gum, and lozenges. He is currently on Wellbutrin. At the most recent visit, he was referred to psychiatry.

What is your plan for future treatment? What are the patient's goals for treatment?

As a result of the patient's toxicology screen, he was dismissed from the facility and has subsequently found another PCP within the same health network.

End of Case Study

Reminder: **Mute** and **Unmute** to talk

***6** for phone audio

Use **chat** function for questions

Case Studies

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



Telehealth

About Telehealth at VCU Health



For Patients



For Providers



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:

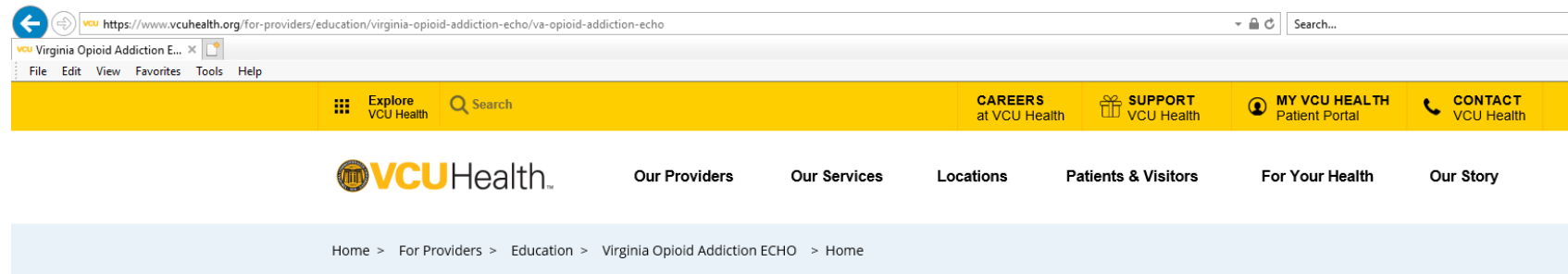
- **Michael Bohan, MD** from Meridian Psychotherapy
- **Diane Boyer, DNP** from Region Ten CSB
- **Melissa Bradner, MD** from VCU Health
- **Kayla Brandt, B.S.** from Crossroads Community Service Board
- **Susan Cecere, LPN** from Hampton Newport News
- **Michael Fox, DO** from VCU Health
- **Shannon Garrett, FNP** from West Grace Health Center
- **Sharon Hardy, BSW, CSAC** from Hampton-Newport News CSB
- **Sunny Kim, NP** from VCU Health
- **Thokozeni Lipato, MD** from VCU Health
- **Caitlin Martin, MD** from VCU Health
- **Faisal Mohsin, MD** from Hampton-Newport News CSB
- **Stephanie Osler, LCSW** from Children's Hospital of the King's Daughters
- **Jennifer Phelps, BS, LPN** from Horizons Behavioral Health
- **Crystal Phillips, PharmD** from Appalachian College of Pharmacy
- **Tierra Ruffin, LPC** from Hampton-Newport News CSB
- **Manhal Saleeby, MD** from VCU Health Community Memorial Hospital
- **Jenny Sear-Cockram, NP** from Chesterfield County Mental Health Support Services
- **Daniel Spencer, MD** from Children's Hospital of the King's Daughters
- **Cynthia Straub, FNP-C, ACHPN** from Memorial Regional Medical Center
- **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

Claim Your CME and Provide Feedback



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

Access Your Evaluation and Claim Your CME



Virginia Opioid Addiction ECHO



Welcome to the Virginia Opioid Addiction Extension for Community Health Outcomes or ECHO, a virtual network of health care experts and providers tackling the opioid crisis across Virginia. [Register now for a TeleECHO Clinic!](#)



Network, Participate and Present

- Engage in a collaborative community with your peers.
- Listen, learn, and discuss didactic and case presentations in real-time.
- Take the opportunity to [submit your de-identified study](#) for feedback from a team of addiction specialists. We appreciate [those who have already provided case studies](#) for our clinics.
- Provide [valuable feedback & claim CME credit](#) if you participate in live clinic sessions.

Benefits

- Improved patient outcomes.
- **Continuing Medical Education Credits:** This activity has been approved for **AMA PRA Category 1 Credit™**.

Telehealth

[About Telehealth at VCU Health](#) ▾

[For Patients](#) ▾

[For Providers](#) ▴

[Virginia Opioid Addiction ECHO](#) ▴

[Register Now!](#)

[Submit Your Case Study](#)

[Continuing Medical Education \(CME\)](#)

[Curriculum & Calendar](#)

[Previous Clinics \(2018\)](#)

[Previous Clinics \(2019\)](#)

[Resources](#)

[Our Team](#)

Access Your Evaluation and Claim Your CME



https://redcap.vcu.edu/surveys/?s=KNLE8PX4LP Project ECHO Survey

File Edit View Favorites Tools Help

ECHO
Virginia Commonwealth University

Please help us serve you better and learn more about your needs and the value of the Virginia Opioid Addiction ECHO (Extension of Community Healthcare Outcomes).

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.
* must provide value

Yes

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?

Access Your Evaluation and Claim Your CME



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

Access Your Evaluation and Claim Your CME

[Home](#) > [For Providers](#) > [Education](#) > [Virginia Opioid Addiction ECHO](#)

[Share](#) / [Print](#)

Telehealth

About Telehealth at VCU Health +

For Patients +

For Providers -

Opioid Addiction ECHO -

[Register Now!](#)

[Submit Your Case Study](#)

[Continuing Medical Education \(CME\)](#)

[Curriculum & Calendar](#)

[Previous Clinics \(2018\)](#)

[Previous Clinics \(2019\)](#)

[Resources](#)

Virginia Opioid Addiction ECHO

Welcome to the Virginia Opioid Addiction Extension for Community Health Outcomes or ECHO, a virtual network of health care experts and providers tackling the opioid crisis across Virginia. [Register now for a TeleECHO Clinic!](#)

Network, Participate and Present

- Engage in a collaborative community with your peers.
- Listen, learn, and discuss didactic and case presentations in real-time.
- Take the opportunity to [submit your de-identified study](#) for feedback from a team of addiction specialists. We appreciate [those who have already provided case studies](#) for our clinics.
- Provide [valuable feedback & claim CME credit](#) if you participate in live clinic sessions.



Benefits

- Improved patient outcomes.
- **Continuing Medical Education Credits:** This activity has been approved for **AMA PRA Category 1 Credit™**.
- Virtual networking opportunities using two-way video conferencing.
- No cost to participate.
- **If unable to attend a live clinic session**, [learn how to access the CME website](#) to view the recording and claim credit.

Content posted within the Virginia Opioid Addiction ECHO is made by possible, in part, by funding from the Virginia Department of Health.

Access Your Evaluation and Claim Your CME



Browser address bar: <https://www.vcuhealth.org/for-providers/education/virginia-opioid-addiction-echo/2019-clinics>

Navigation bar: Explore VCU Health, Search, CAREERS at VCU Health, SUPPORT VCU Health, MY VCU HEALTH Patient Portal, CONTACT VCU Health

VCUHealth logo and navigation: Our Providers, Our Services, Locations, Patients & Visitors, For Your Health, Our Story

Breadcrumb: Home > For Providers > Education > Virginia Opioid Addiction ECHO > Previous Clinics - 2019

Previous Clinics (2019)

Review topics we covered in previous Virginia Opioid Addiction ECHO clinics. Visit our [Curriculum and Calendar](#) for upcoming clinic topics.

Topic	Date	Resources
Trauma Informed Care and Treating Those Experiencing Opioid Addiction Led by Courtney Holmes, PhD	01/04/19	<ul style="list-style-type: none">Video of ClinicSlide Presentation
<u>Learning Objectives:</u> <ol style="list-style-type: none">1. Identify individuals who have experienced trauma.2. Understand the impact of trauma on human development particularly related to substance use and misuse.3. Learn components of trauma informed care.		
Syringe Exchange Led by Anna Scialli, MSW, MPH	01/18/19	<ul style="list-style-type: none">Video of ClinicSlide PresentationNarcan/Naloxone LawsNeedle Exchange Program FlyerBill to Remove Cooperation Law
<u>Learning Objectives:</u> <ol style="list-style-type: none">1. Understand current legislative landscape in regards to syringe exchange in VA.2. List benefits to clients and community of syringe exchange.3. Define harm reduction.		

Telehealth

- About Telehealth at VCU Health
- For Patients
- For Providers**
- Virginia Opioid Addiction ECHO
 - Register Now!
 - Submit Your Case Study
 - Continuing Medical Education (CME)
 - Curriculum & Calendar
 - Previous Clinics (2018)
 - Previous Clinics (2019)
 - Resources
 - Our Team
 - Contact Us
- Virginia Palliative Care ECHO
- Virginia Sickle Cell Disease ECHO
- Telehealth Programs

VCU Virginia Opioid Addiction TeleECHO Clinics

Bi-Weekly Fridays - 12-1:30 pm

Mark Your Calendar --- Upcoming Sessions

Jan 31: Implementing Group Therapy

Courtney Holmes, PhD
Lori Keyser-Marcus, PhD

Feb 21: Pharmacotherapy for Methamphetamine Use

Gerry Moeller, MD

Please refer and register at vcuhealth.org/echo

THANK YOU!

Reminder: **Mute** and **Unmute** to talk
*6 for phone audio
Use **chat** function for questions

Resources

1. Whiting PF, Wolff RF, Deshpande S, et al. Cannabinoids for Medical Use: A Systematic Review and Meta-analysis. *JAMA*. 2015;313(24):2456–2473. doi:10.1001/jama.2015.6358
2. The Health Effects of Cannabis and Cannabinoids: The Current State of Evidence and Recommendations for Research. 2017 Jan 12;. doi: 10.17226/24625. Review. PubMed PMID: 28182367.