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	Q&A	
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- 1. Today's webinar is 1 hour including Q&A.
- 2. All participants will be muted during the webinar.
- 3. Please use the Q&A function. We will monitor questions throughout and answer as many as possible at the end.
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Today's speaker



Sandrine Pirard, MD, PhD, MPH VP Medical Director

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Learning Objectives

1	Understanding Addiction	
2	Medications for Opioid Use Disorder	
3	Initiatives to support adoption of MOUD	
4	Resources	
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Understanding Addiction

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What is Addiction?

Lack of moral principles or willpower or Complex disease?



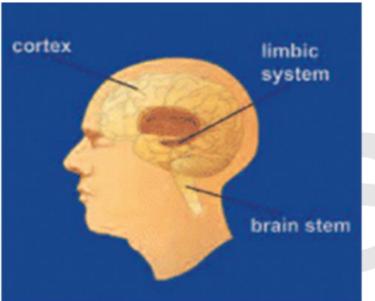


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Three Main Players

Frontal cortex

thinking center
of the brain
(ability to think,
plan, solve
problems, and
make decisions)



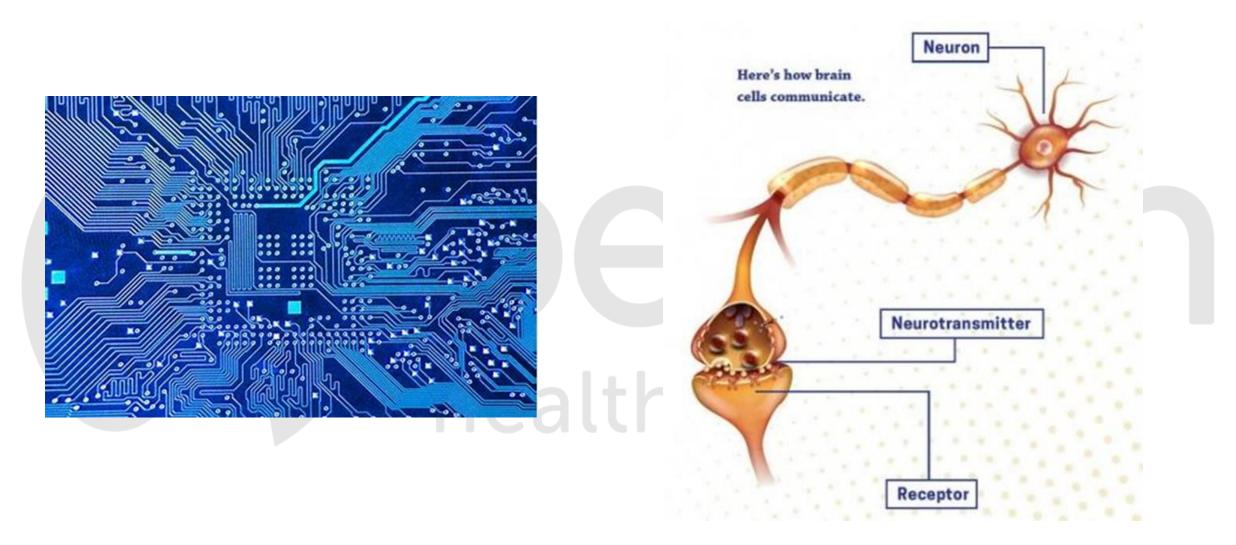
The limbic system contains the brain's reward circuit (ability to feel pleasure); triggered by food, sex, but also drugs + perception of other emotions, both positive and negative

Brain stem controls basic functions critical to life (heart rate, breathing, and sleeping) ptions



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Our Brain Circuit



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Which one would you pick?



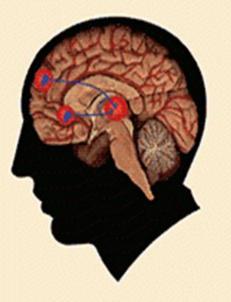
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Addiction and the Brain

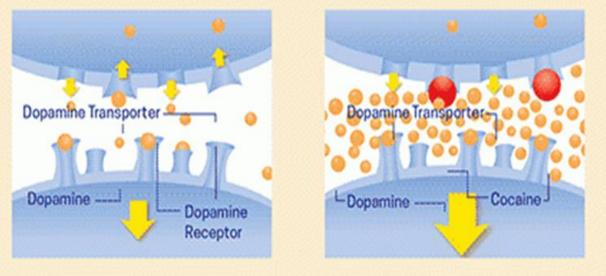
Some drugs target the brain's pleasure center

Brain reward (dopamine pathways)



These brain circuits are important for natural rewards such as food, music, and sex.

How drugs can increase dopamine



While eating food

While using cocaine

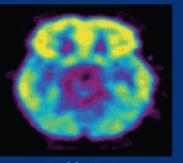
Typically, dopamine increases in response to natural rewards such as food. When cocaine is taken, dopamine increases are exaggerated, and communication is denied.

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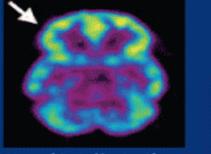
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Addiction and the Brain continued...

DECREASED BRAIN METABOLISM IN DRUG ABUSER

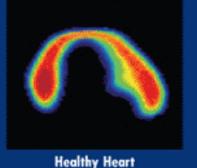


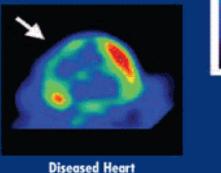
Healthy Brain



Diseased Brain/Cocaine Abuser

DECREASED HEART METABOLISM IN HEART DISEASE PATIENT





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Source: NIDA: Drugs, Brains, and Behavior: The Science of Addiction – http://www.drugabuse.gov/publications/scienceaddiction

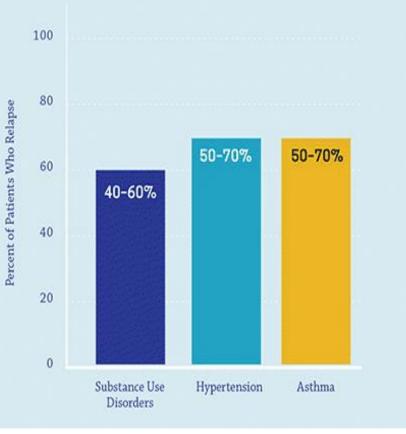


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Addiction is a Chronic Disease

- Similar to HTN, diabetes, and asthma
 - Role of genetic, behaviors and environment
- Chronic illnesses are associated with:
 - Poor medication adherence (<50%)
 - Poor adherence to prescribed behavioral changes (<30%)
 - High level of relapse requiring ED or hospital admission (>50% per year)

Comparison of Relapse Rates Between Substance Use Disorders and Other Chronic Illnesses

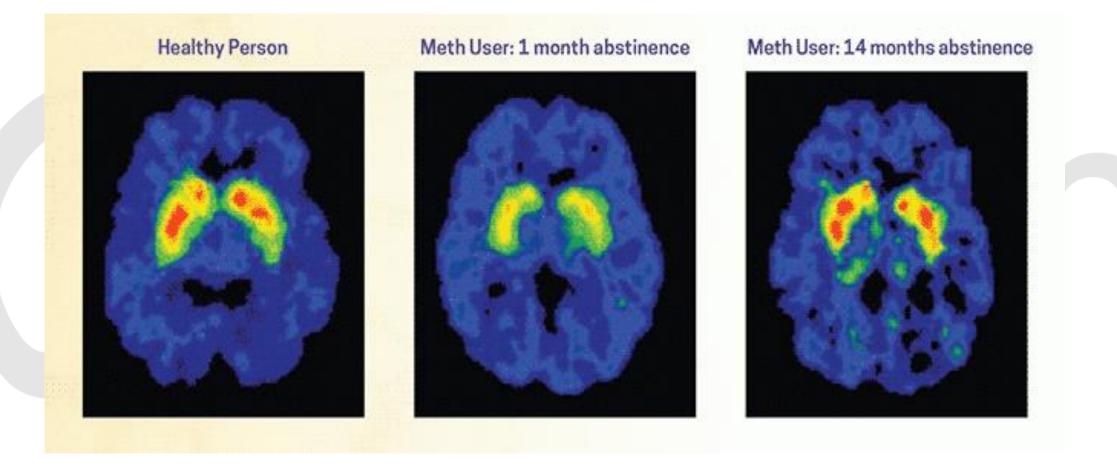


(JAMA, 2000; 284:1689-1695)



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Recovery is Possible



The Journal of Neuroscience, 2001; 21(23):9414-9418



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How can we Leverage Science?

- Chronic disease model: Long Term vs. Episodic Care
- Multifactorial: Multidimensional assessment and treatment
- Use of Evidence-based practices
- Relapse is part of disease
- Recovery is achievable





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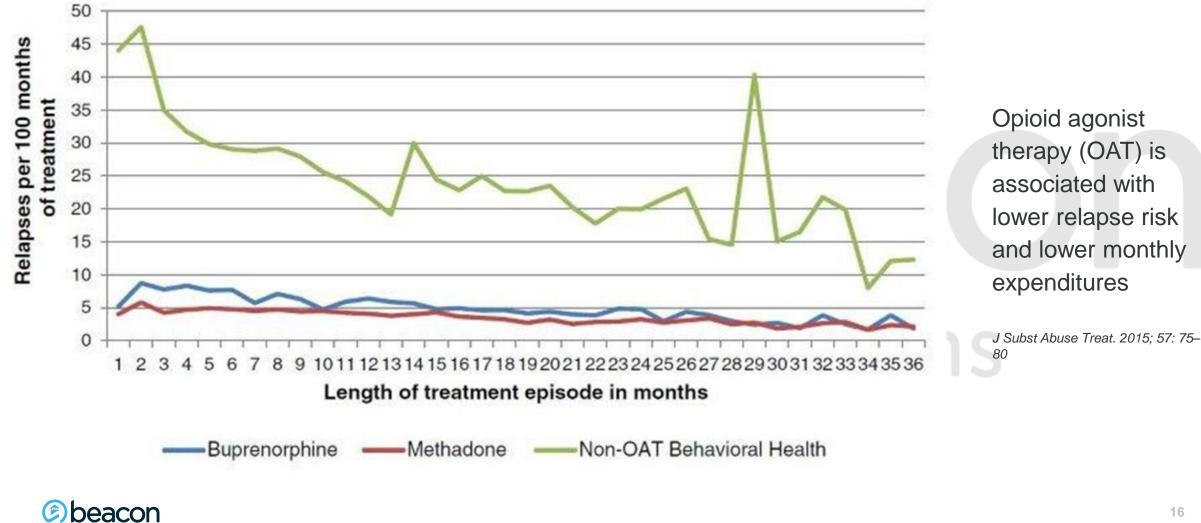
Medications for Opioid Use Disorder (MOUD)

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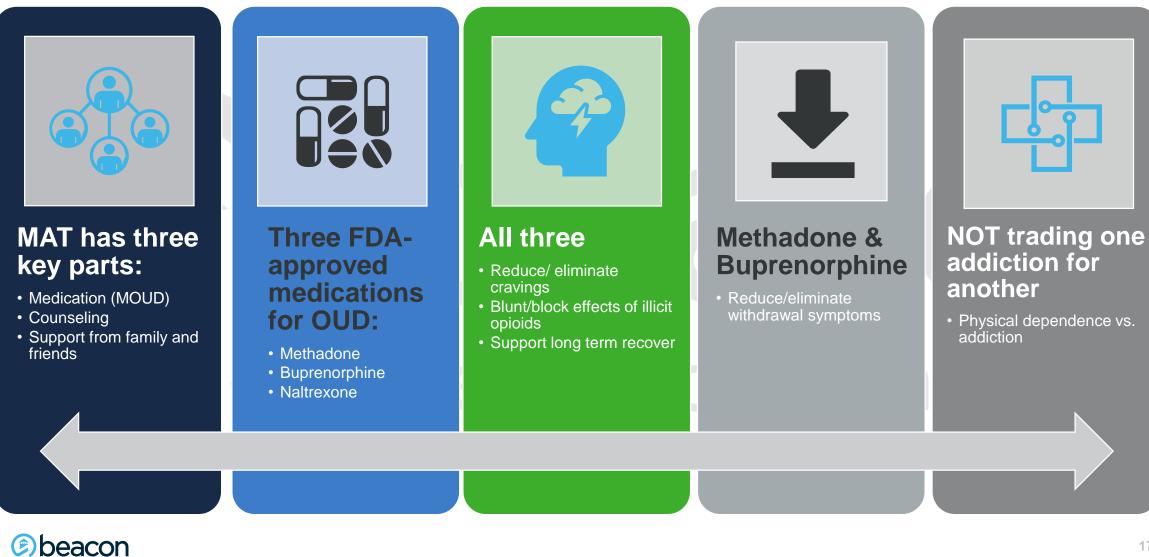
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A Case in Point: MOUD



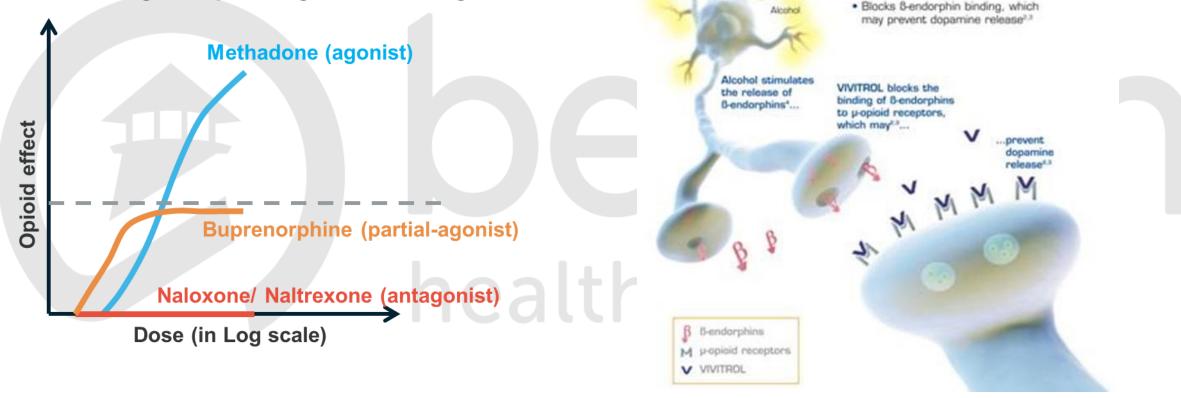




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Opioid Agonists and Antagonist

Conceptual representation of opioid effect according to dose for agonist, partial-agonist and antagonist



Modified from: Center for Substance Abuse Treatment. Clinical Guidelines for the Use of Buprenorphine in the Treatment of Opioid Addiction. Treatment Improvement Protocol (TIP) Series 40. DHHS Publication No. (SMA) 04-3939. Rockville, MD: Substance Abuse and Mental Health Services Administration, 2004.

VIVITROL contains naltrexone, which:

affinity for the p-opioid receptor'

Is an opioid antagonist with the highest

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Methadone

What is it	How does it work	Potential benefits	Side effects	Regulations
Long-acting opioid medication	Opioid agonist	Blocks the effects of an opioid high	Constipation, sleepiness and sweating	Strict regulations
Orally once a day	Attaches to opioid receptors in the brain where heroin and other opioids attach	Eliminates withdrawal and cravings to use and lowers the risk of relapse, overdose and death	Respiratory depression and cardiac effects; increased risk of OD with alcohol, benzos, and street drugs	Only available at certified OTPs

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Buprenorphine

What is it	How does it work	Potential Benefits	Side Effects	Regulations
Long-acting opioid medication	Partial agonist	Blocks the effects of an opioid high	Potential for precipitated withdrawal at induction	Waiver required outside OTPs
Sublingual or buccal once a day, subcutaneous injection once a month, or subdermal implant every six months	It attaches to opioid receptors, ceiling effect	Eliminates withdrawal and cravings to use and lowers the risk of relapse, overdose and death	Constipation, nausea and headache. Respiratory depression, particularly if combined with alcohol, benzos, and street drugs	If more than 30 patients, need for training

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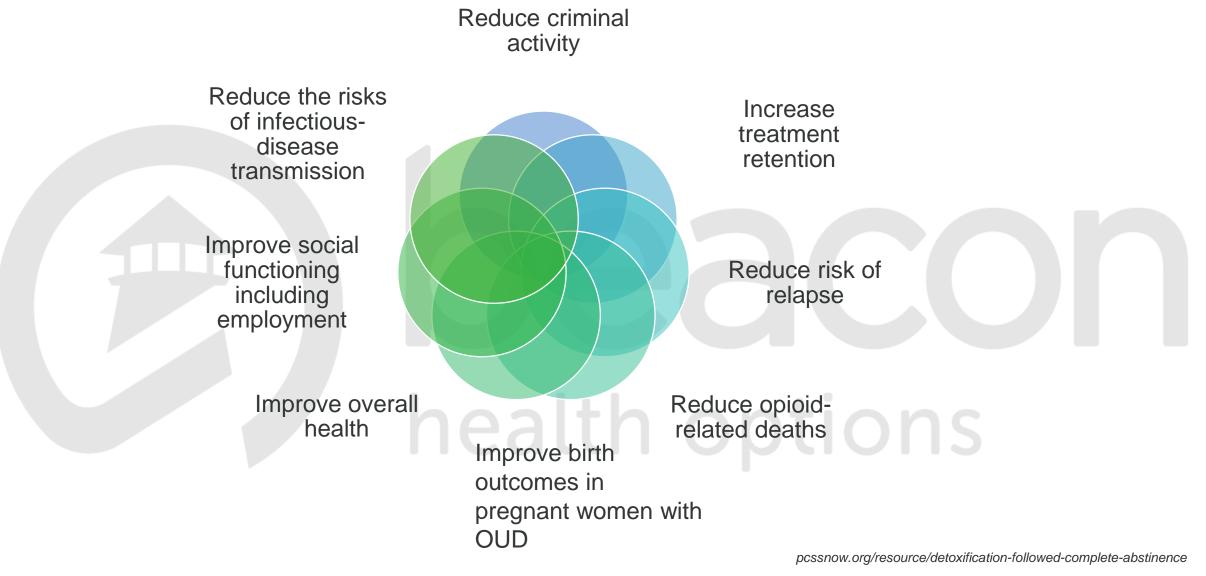
Naltrexone

What is it	How does it work	Potential Benefits	Side Effects	Regulations
Non-opioid medication	Opioid antagonist	Decreases cravings and blocks effects of opioids	Precipitated withdrawal if taken too soon after last use	Only requires a prescription
Orally once a day or intramuscular injection once a month	It blunts the pleasurable effects of opioids and alcohol	No abuse potential, no withdrawal symptoms when the medication is stopped	Opioid-free period prior initiation (7-10 days minimum); nausea, liver toxicity; vulnerability to overdose with relapse	S

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MOUD Risks/Benefits





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MOUD Risks/Benefits



RISKS

- Potential medical risks (medical comorbidities, drug-drug interactions)
- Abuse potential
- Diversion
- OD risks (methadone vs. buprenorphine vs. naltrexone)



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Chapter

"We help people live Mediciations forthe Opficiel Stope Distingler **Provider Training** September 2021

Initiatives to support adoption of MOUD health options



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Promotion of best practices



- Leveraging data to identify needs and gaps in system of care
- Growing network of providers delivering quality SUD treatment inclusive of MOUD
- Supporting providers through educational activities such as webinars and Project ECHO
- Implementing innovative programs to promote adoption of best practices such as MOUD induction on inpatient units, MOUD induction in EDs, promotion of naloxone

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Extension for Community Health Outcomes (ECHO)

- Project ECHO[®] is a Community based Public Healthcare initiative that facilitates treatment of common yet complex diseases in under-served and rural areas developed by Dr. Sanjeev Arora at University of New Mexico
- The goals of Project ECHO are two-fold:
 - Develop capacity to safely and effectively treat complex diseases in rural and underserved locations
 - o Monitor outcomes centrally to assess effectiveness of the program
- In the program's first year in CT, providers increased their MOUD prescriptions by 51%.

https://hsc.unm.edu/echo/become-a-partner/#findanexistingecho









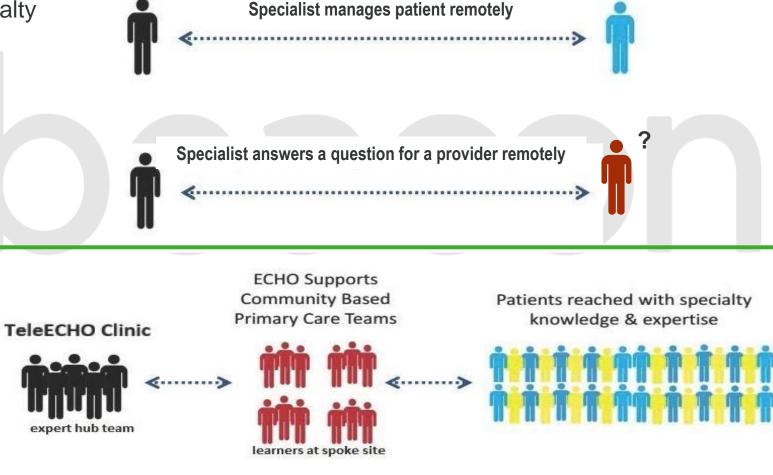
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Project ECHO's tele-mentoring model

Traditional telemedicine brings specialty care to one patient

Traditional case consultation answers questions for one provider

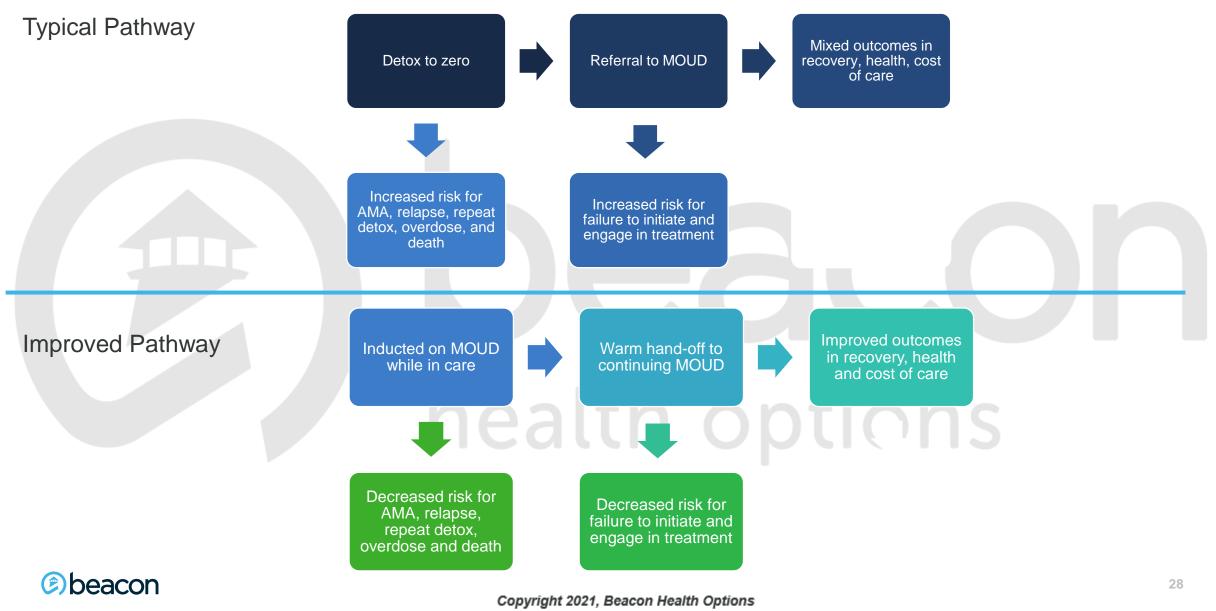
Project ECHO's tele-mentoring model increases specialty care competence of entire teams of community-based providers through collaborative case discussions, expanding access to specialty care across entire communities.



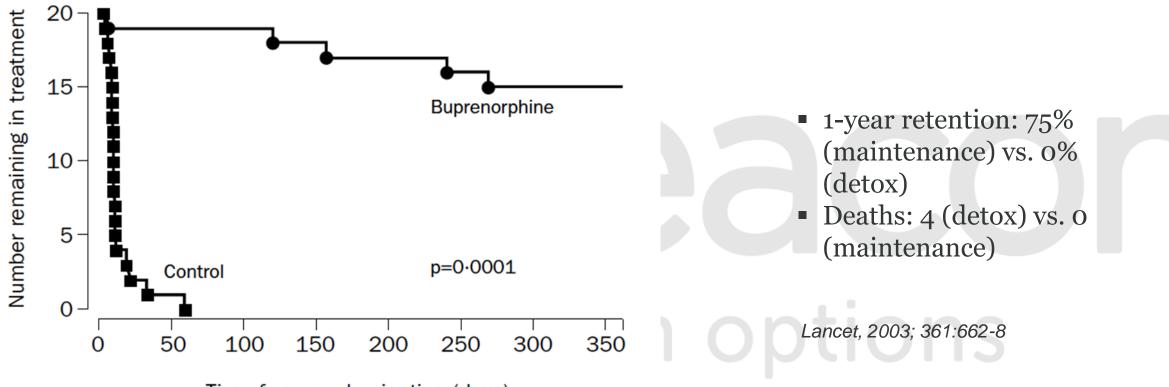


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The Changing Pathways Model



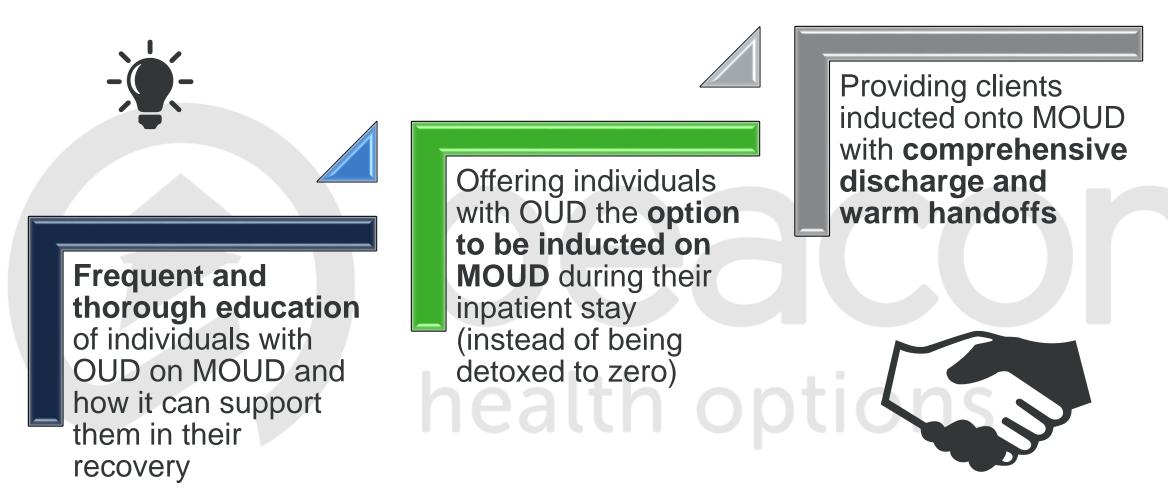
Rationale for Changing Pathways



Time from randomisation (days)

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Three Essential Components:





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Changing Pathways to Opioid Use Disorder Recovery During Inpatient Care

Sandrine Pirerd, MD, PhD, MPH, Beacon Health Options Wincent McGate, MD, Hartford Hashthcare Reekford Center Carrie Bourdon, LCSW, Beacon Health Options Danilo Pangilman, MD, Intercommunity Inc.

Background:

- Medication-Assisted Treatment (MAT) and in particular Opicid Maintenance Therapy (OMT) is associated with the most successful outcomes for individuals with Opicid Use Disorder (OUD), but it is grouply understillized ().
- Many inpatient programs atili use medical detexification protocols, discharging clients without starting MAT.
- Detections is associated with high rates of relapse and the risk of accidental overdose and death is high due to decreased tolerance §8.
- Moving away from traditional detectification and instead starting MAT could greatly improve outcomes and reduce health care utilization (ii).

Description of Pilot:

In October 2018, CT BHP launched the Changing Pathways (CP) pilot in CT. Or uses a multiblicitylinary approach across all staff inducting numing, physicians, and directains as well as recovery parent to incorporate MMI induction into withdrawal management care. The have essential components of the Or model are:

() In-depth MAT education

(2) MAT induction if chasen by client

(A) Warm transfer to guarantee continuation of MAT post-dash arge

Methods:

Individuals participating in this plot were Medicai dimembers with a diagnosis of CUD admitted for withdrawal management at one of the two freestanding repaired plot sites, Rauford and InterCommunity. Data were collected at various finepoints to compare outcomes of membersheing inducted on the MAN or detosed following traditional protocols.



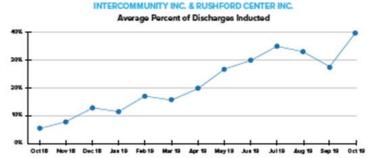
Results:

1. MAT Education

Education about risks and benefits of MAT (methodore, bup recorphine, and nativoznej vs. treatment without medications was documented for over 85% of members with OUD discharged from the pilot sites between May and October 2019.

2.MAT Induction and Inspect on AMA and Re-admission Rates

During the finit year of the initiative, 475 MAT inductions were performed, representing a significant increase in induction rates (over BOOK increase for size A and over 300% for size B). Aside from one member who was started on redrescene, all others were started on OMT (372 conditions) to allow and 100 contracted ones.



10/1/2018 - 10/1/2019

piecearge pate

Members who were inducted on MAT had significantly better outcomes than members who wert through traditional datasification protocols. Discharges Against Medical Advice (AMA) relax, readmission relax, and connect-to-care relax were gready improved.

10/1/2018 - 10/1/2019



3.Connection to MAT post decharge

The rate of individuals on MAT in the period alter discharge from the two sites increased 52% from Q2 2018 to Q2 2019

4. MAT Achemice at 90-day post discharge

Nearly 40% of industed members discharging from pike also between 10.042018 and 03.912019 were medication adherent for the 90 days following discharge when using EDK of days covered as the threshold for adherences, about 2.5 times the rate of members who were detaced and later stated on MET.

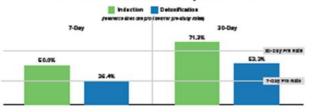


5.Connection to Care

MAT induction was associated with higher 7- and 30-day connection to care after discharge.

Prior to the start of the pilot, in September of 2018, discharges from the two pilot sizes had a 7-day follow-up rate of 36.4% and a 30-day rate of 65.6%. During the course of the pilot, the connect to care rates for pilot inducted members improved to 50% for 7 days and 71.3% for 30 days. The connection to care rate for pilot non-inducted discharges was 36.4% for 7 days and 53.3% for 30 days.

Pilot Site Induction Rates: 7- and 30-Day Connect to Care



6.90-Day Service Utilization

For members inducted at the pilot sites with discharge between 10/09/2018 and 03/31/2019, there were statistically significant reductions in withdrawal management episodes and Behavioral Health BH, Emergency Department (ED) visits, and the later mere was needy out in half after the MMI induction. Additionally, among inducted members, these who met the 80% adhement freehold were significantly more likely to see a decrease in BH ED visits (0.50 visits prevs. 0.25 visits peop than members, who didnot met the adhement freehold (0.27 visits) peop than members who didnot met the adhement freehold (0.27 visits) peop than members.

10/1/2018 - 3/31/2019

Behavioral Health EO Episodea	Inpatient Pyech Episodes	Total Inpatient Days
0.83 > 0.42		3.06 2.51
Medical ED Episodes	Inputient Medical Episodes	Withdrawal Management Episodes
		0.68 0.37

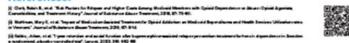
Members who were not inducted also had a significant reduction in BH ED visits (0.69 visits provs. 0.59 visits post). However, they showed a significant increase in total inpatient days (2.85 days provs. 3.60 days post) and no significant change in with drawal memogenerat rejuscies (0.66 spinosolas provs. 0.59 visits post).

Conclusion:

Overall, CT BHP CP represents a promising, person-centered approach to supporting recovery for individuals with OUD.

References:

Connection MILT DCF



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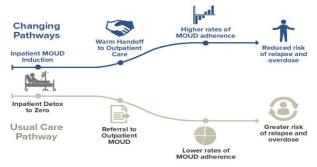
MOUD Induction in Inpatient Settings and Medication Adherence

Be	Beacon Health Options			
Krista R. Noam,	Carrie Bourdon,	Sandrine Pirard,		
Ph.D.	LCSW	MD, Ph.D., MPH		

INTRO: Medications for Opioid Use Disorder (MOUD) continue to be under-utilized.

Many inpatient programs still use medical detoxification protocols, discharging clients without starting MOUD.

METHODS: The *Changing Pathways* program was designed to induct adults with Medicaid on MOUD and increase their MOUD utilization.



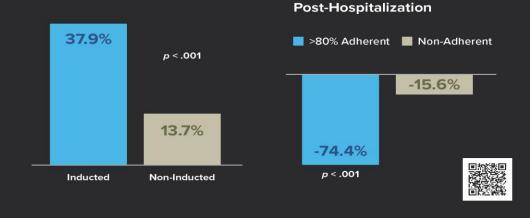
Medicaid claims were analyzed for adults with an OUD diagnosis who were discharged from a pilot withdrawal management facility (10/1/2018 - 3/31/2020) and had > 90 days of continuous enrollment pre- and post-hospitalization.

Adherence = <u># of days covered by MOUD post 90 days</u> # of days eligible for adherence post 90 days

MOUD medications: methadone, buprenorphine, and naltrexone.

Inpatient MOUD induction increases MOUD adherence, which reduces opioid overdoses.

Percent of Patients with > 80% MOUD Adherence during 90 Days Post-Hospitalization



Percent Change in Opioid

Pre-Hospitalization to 90 Days

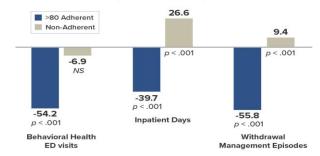
Overdose from 90 Days

RESULTS: Of the 3,143 patients admitted for withdrawal management (73.5% male, 47.4% White, 22.6% Hispanic), 733 were inducted on MOUD (23.3%) and 2,410 were not inducted (76.7%).

MOUD adherent individuals saw a greater drop in opioid overdose in the post- period (from 8.2% to 2.1%) compared to non-adherent members (from 7.7% to 6.5%).

MOUD adherent adults also saw a significant decrease in their average number of BH ED visits (from 0.7 to 0.3), average number of inpatient days (2.4 to 1.4), and in the mean number of withdrawal management episodes (0.5 to 0.2).

Percent Change in Service Use 90 Days Pre and 90 Days Post Hospitalization



CONCLUSIONS: MOUD induction during inpatient care is associated with higher likelihood of postdischarge adherence, which in turn is associated with reduced service utilization and opioid overdose. Various implementation supports, such as peer support services, are crucial to success.

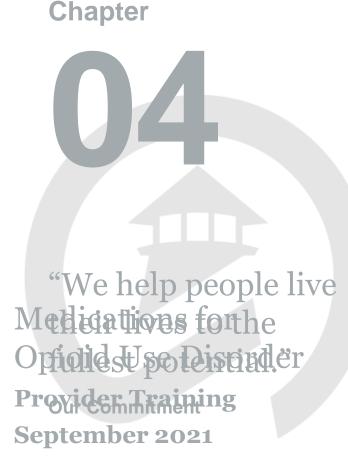
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Resources

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Resources for Finding Treatment Providers

- NIAAA Alcohol Treatment Navigator: https://alcoholtreatment.niaaa.nih.gov/
- ATLAS Treatment Locator: https://www.treatmentatlas.org/
- SAMHSA MAT: <u>https://www.samhsa.gov/medication-assisted-treatment</u>
- SAMHSA Buprenorphine Treatment Practitioner Locator: <u>https://www.samhsa.gov/medication-assisted-treatment/physician-program-data/treatment-physician-locator</u>

SAMHSA Behavioral Health Treatment Locator:
https://www.findtreatment.samhsa.gov/



Clinical Tools

- https://pcssnow.org/resources/clinical-tools/:
 - Patient/family information
 - Intake
 - Treatment Agreements
 - Induction
 - Drug accountability forms
 - Ongoing Treatment
 - How to prepare for DEA inspection



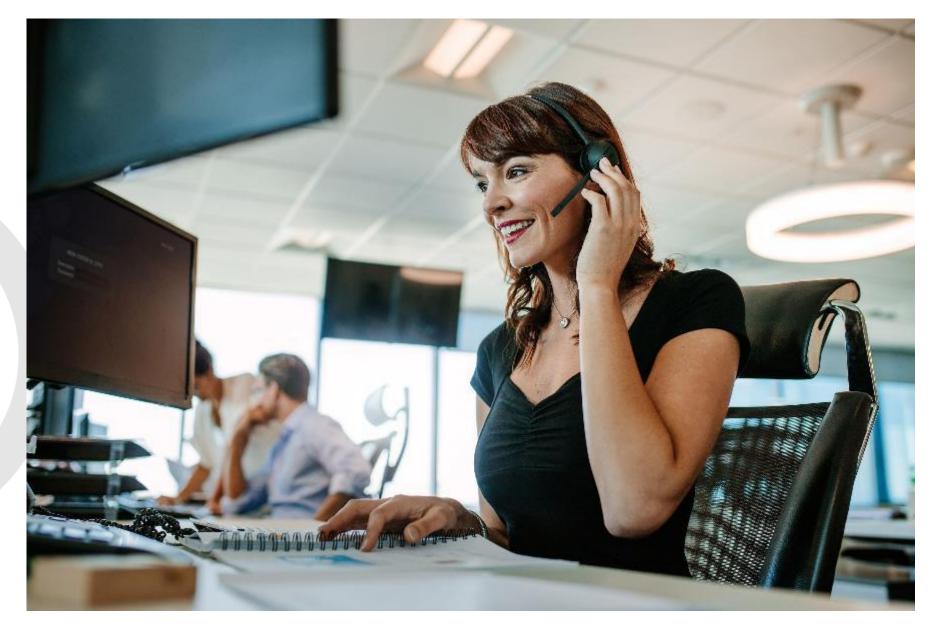


Clinical Tools

- SUD & COVID:
 - <u>COVID-19 Coronavirus (asam.org)</u>
- ED Buprenorphine Induction:
 - ED-Initiated Buprenorphine < ED-Initiated Buprenorphine (yale.edu)
 - BUP Initiation on the App Store (apple.com)
 - Buprenorphine Initiation app Apps on Google Play
 - Emergency Department Initiated Buprenorphine For Opioid Use Disorder MDCalc



Questions & Answers



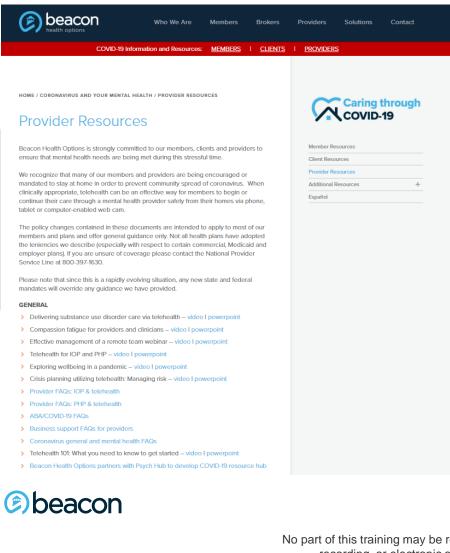


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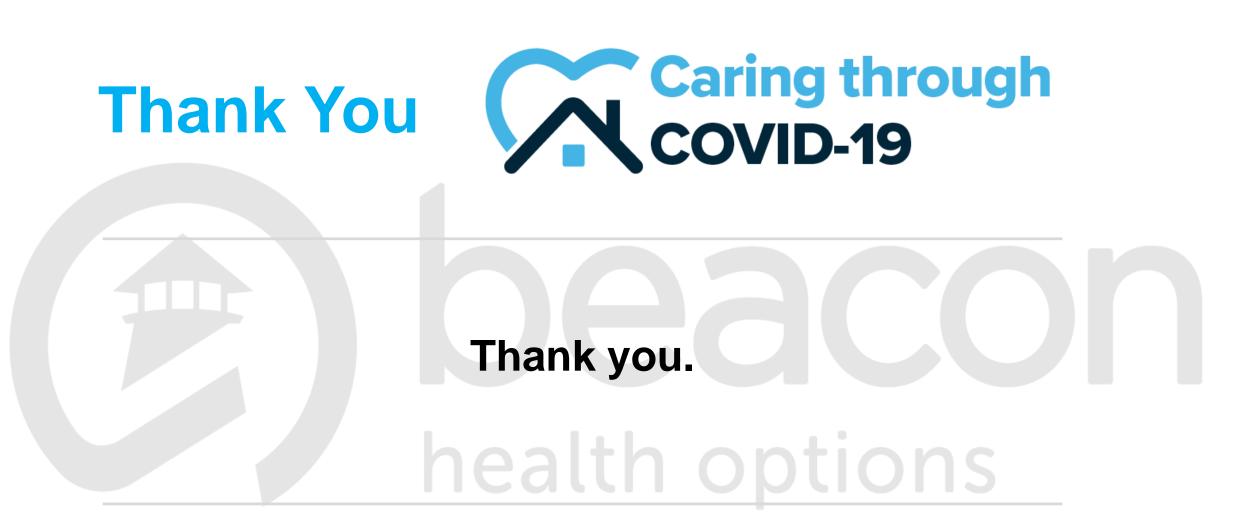
Refer to Beacon's COVID-19 webpage for the most up-to-date information



Beacon COVID-19 provider resources & webinars LINK

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