Project

A unified response to the opioid crisis in California Indian Country

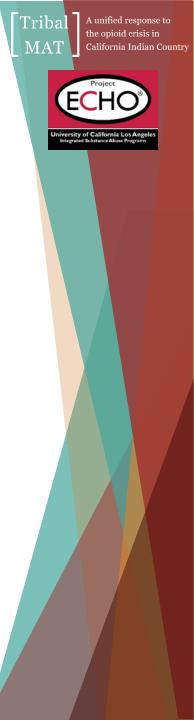
Triba

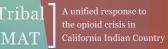
Treatment of Alcohol Use Disorder

Tuesday, September 21st, 2021

Speaker: Veronica Velasquez-Morfin, MD El Dorado Community Health Centers

Tribal MAT ECHO[™] Staff: Gloria Miele, PhD, Daniel Dickerson, DO, MPH, Katie Bell, MSN, Thomas E. Freese, PhD, and Beth Rutkowski, MPH







Indigenous Land Acknowledgement

- We respectfully acknowledge that we live and work in territories where Indigenous nations and Tribal groups are traditional stewards of the land.
- Please join us in supporting efforts to affirm Tribal sovereignty across what is now known as California and in displaying respect, honor and gratitude for all Indigenous people.

Whose land are you on? Text your ZIP code 1-855-917-5263 or enter your location at https://nativeland.ca



Triba

The use of affirming language inspires hope and advances recovery.

LANGUAGE MATTERS. Words have power. PEOPLE FIRST.

The ATTC Network uses affirming language to promote the promises of recovery by advancing evidence-based and culturally informed practices.



Addiction Technology Transfer Center Network
 Funded by Substance Abuse and Mental Health Services Administration

Disclosures

There are no relevant financial relationships with ACCMEdefined commercial interests for anyone who was in control of the content of this activity. Triba

California Indian Country

Objectives

Γrib

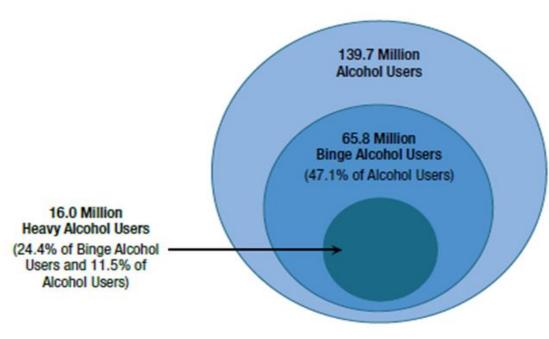
California Indian Country

- Recall 2 validated alcohol screening tools that can be used in the primary care setting.
- Recall 3 FDA-approved medications to treat AUD
- Identify pros and cons of these medications and how to selectively match these medications with specific AUD patients



Alcohol Use is Prevalent

Nearly 86% of US population reported using Alcohol at least once in their lifetime. Figure 6. Current, Binge, and Heavy Alcohol Use among People Aged 12 or Older: 2019





Rise in Alcohol Use with COVID-19 Pandemic

- 54% increase in national sales of alcohol the week ending March 21, 2020
- Stress and uncertainty
- Impacts on daily life and functioning: working from home, manage children's schooling, unemployment, work on frontlines
- Isolation -Decrease access to treatment programs, sobriety support groups
- Sharper rise amongst women

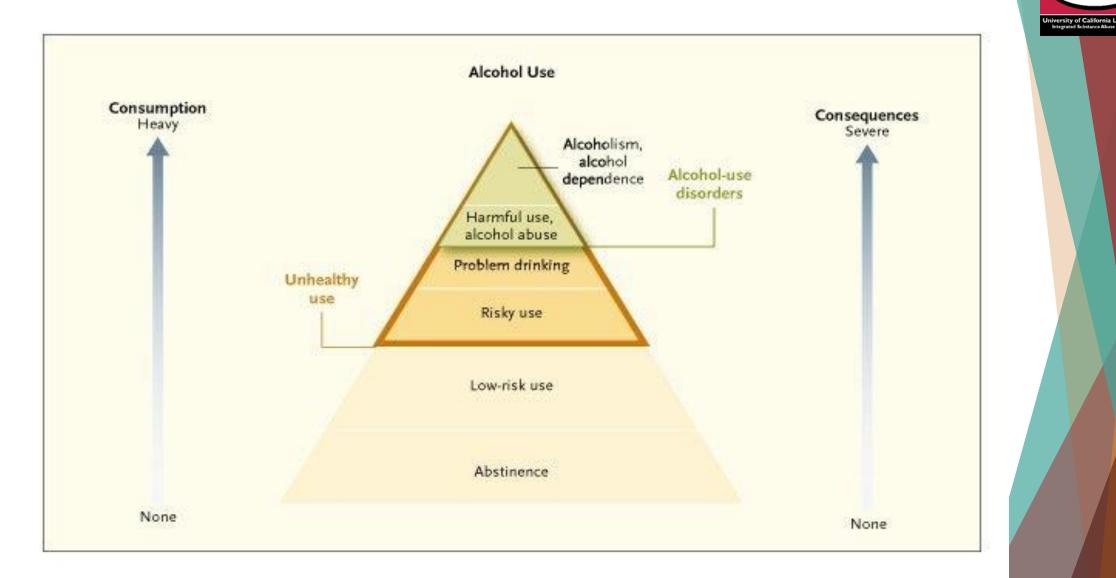




Native American Alcoholism Facts and Statistics

- Heavy alcohol use: 9.2% of Native Americans of ages 12 and older; highest rate of any ethnic group
- One of the highest rate of fetal alcohol spectrum disorders in the US
- Highest rate of deaths from alcohol poisoning per million people
- 2014 Rate of co-occurring disorders 8.8% compared to national average of 3.3%
- More likely than other ethnic groups to need treatment for alcohol use disorder

Spectrum of Alcohol Use



Tribal

MAT

A unified response to the opioid crisis in

ECHO

California Indian Country

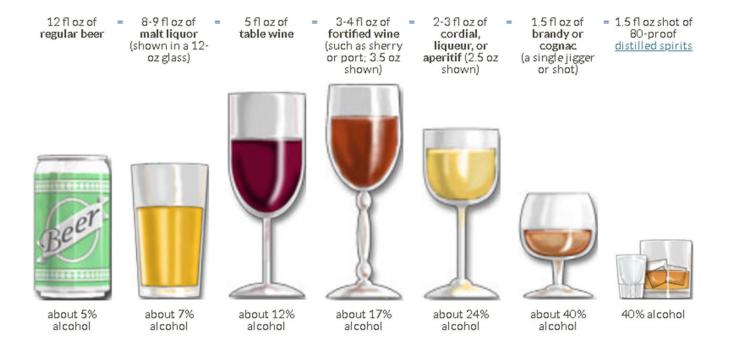
Excessive Alcohol Use Definitions

Binge Drinking

- 4+ drinks females
- ▶ 5+ drinks males

Heavy Drinking

- 8+ drinks/week females
- 15+ drinks/week males



Tribal
MATA unified response to
the opioid crisis in
California Indian Country



Why Screen for Excessive Alcohol Use?



Triba

unified response to



- 261 deaths/day
- Leading case of preventable
 deaths in US
- Shorten lives average 29 years
- Cost \$249 billion in 2010
- Automobile crashes, accidental and intentional injury, social and legal problems

Screening US Preventative Services Task Force (USPSTF)

Recommends screening for unhealthy alcohol use in primary care settings in adults 18 years or older, including pregnant women and providing persons engaged in risky or hazardous drinking with brief behavioral counseling interventions to reduce unhealthy alcohol use. (B recommendation)

 Cribal
 A unified response to

 the opioid crisis in
 California Indian Count



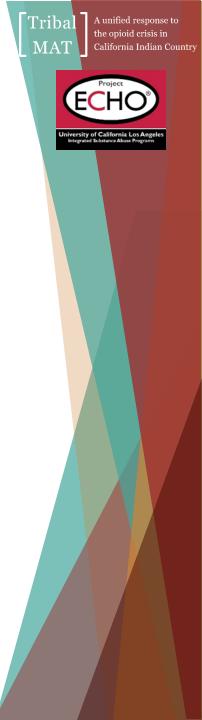
Validated screening methods for AUD

Single Question Screening

How many times in the past year have you had five (for men) or four (for women and all adults older than 65) or more drinks per day?

AUDIT-C (Abbreviated three-item questionnaire)

AUDIT (10 Item questionnaire)



SAHMSA.gov

AUDIT-C

AUDIT-C

Please circle the answer that is correct for you.

1. How often do you have a drink containing alcohol?					
Never (0)	Monthly or less (1)	Two to four times a month (2)	Two to three times per week (3)	Four or more times a week (4)	<u></u>
2. How many drinking?	drinks containi	ng alcohol do you ha	ave on a typical day	when you are	
1 or 2(0)	3 or 4 (1)	5 or 6 (2)	7 to 9 (3)	10 or more (4)	
3. How often d	lo you have six o	or more drinks on or	ne occasion?		
Never (0)	Less than Monthly (1)	Monthly (2)	Two to three times per week (3)	Four or more times a week (4)	nan a han
TOTAL SCOR					
Add the number	r for each question	n to get your total sco	ore.		

Maximum score is 12. A score of \geq 4 identifies 86% of men who report drinking above recommended levels or meets criteria for alcohol use disorders. A score of > 2 identifies 84% of women who report hazardous drinking or alcohol use disorders.

Tribal MAT A unified response to the opioid crisis in California Indian Country





Frib

Medications for Alcohol Use Disorders

Naltrexone - Reduces pleasurable effects of alcohol Acamprosate - Reduces post-acute withdrawal symptoms Disulfiram - Discourages drinking by making it unpleasant Common Characteristics of FDA Approved Medications to treat AUD

- Not a cure
- Not alcohol substitution drug
- Not addictive or habit forming
- Should be prescribed in conjunction with counseling
- Better drinking outcomes (with counseling) than placebo (with counseling)
- Higher efficacy with initial abstinence: 4-7 days
- Prescribed <9% Americans with AUD</p>

www.niaaa.nih.gov

Γrib

FDA Approved Medications for AUD



Naltrexone

Revia, generic 50mg orally \$27/month FDA approved 1994



Naltrexone (Vivitrol)

380mg ER Injectable \$1372/month



FDA approved 2006

Mechanism

- Opioid receptor antagonist
- If alcohol consumption less rewarding, drinking will decrease.

Efficacy

- Increase rates of NO heavy drinking (NNT=8.6)
- Compliance problem with daily dosing
- Monthly injectable vivitrol

Safety

- Do not give to patients on prescribed or illicit opiate use (acute alcohol withdrawal)
- Caution with liver disease

www.niaaa.nih.gov



What does the research say about extended-release Naltrexone?

- Participants did not maintain complete abstinence more frequently than those receiving placebo
- Participants had a greater reduction in the number of heavy drinking days than those receiving placebo
- Participants with a 7-day abstinence period from alcohol prior to treatment initiation had a greater reduction in the number of heavy drinking days than those receiving placebo

FDA Approved Medications for AUD



unified response to

Triba

Acamprosate

1998mg orally

FDA approved 2004

NDC 0378-6333-80

Calcium

Tablets 333 mg

Rx only

Acamprosate

Delayed-release

Mylan

\$108/month

I mg of acamprosate calcium

Mylan[®] | Mylan

0 mg of acamprosal

(Campral)

Mechanism

- Heavy drinking and withdrawal dysregulate the balance between neuronal excitation (glutamate) and inhibition (GABA)
- When drinking stops-glutamate activity too high
- Glutamate receptor modulator -restores balance (homeostasis) in glutamergic transmission

Efficacy

Increases rates of abstinence in studies up to 1 year (NNT=7.5) Safety

- Not metabolized by the liver, excreted renally
- Safe in patients with hepatic impairment

www.niaaa.nih.gov

What does the research say about Acamprosate?

- Participants treated with acamprosate were able to maintain complete abstinence more frequently than those treated with placebo
- Participants treated with acamprosate had a greater reduction in the number of drinking days during the entire study than those treated with placebo
- In the studies, participants treated with acamprosate were able to regain complete abstinence after one relapse more frequently than those treated with placebo

21

[rib

FDA Approved Medications for AUD

Disulfiram (Antabuse)

125-500mg (orally)\$18/month (generic)Approved 1951





Mechanism: Alcohol-disulfiram reaction

- Inhibits metabolism of alcohol
- Acetaldehyde builds up quickly
- Rapid onset of flushing, nausea, palpitations
- Psychological deterrent

Efficacy

- Medication compliance
- Optimized with supervised administration
- Abstinent goal in highly motivated patient

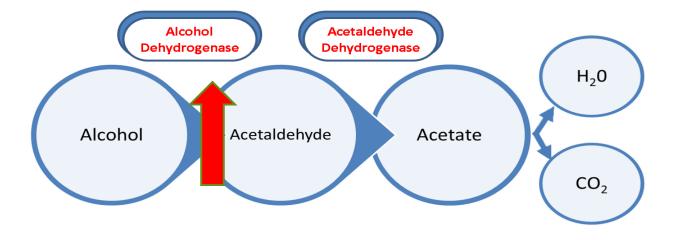
Safety

- >12 hours after last alcohol use
- Caution with liver disease, drowsiness www.niaaa.nih.gov





Disulfiram-Alcohol Reaction



- Disulfiram works by blocking the enzyme acetaldehyde dehydrogenase
- This causes acetaldehyde to accumulate in the blood at 5 to 10 times higher the amount than would normally occur with alcohol alone



Disulfiram-Alcohol Reaction

Since acetaldehyde is toxic, a buildup of it produces a highly unpleasant series of symptoms

- throbbing in head/neck
- brief loss of consciousness
- throbbing headache
- lowered blood pressure
- difficulty breathing
- marked uneasiness
- copious vomiting
- nausea
- flushing

- sweating
- thirst
- weakness
- chest pain
- dizziness
- palpitation
- hyperventilation
- rapid heartbeat
- blurred vision

- confusion
- respiratory depression
- cardiovascular collapse

Triba

<u>unified</u> response to

California Indian Country

- myocardial infarction
- congestive heart failure
- unconsciousness
- convulsions
- death

What does the research say about disulfiram?

- Best efficacy in motivated patients with supervised dosing
- Participants treated with disulfiram did not maintain complete abstinence more frequently than those treated with placebo
- Participants treated with disulfiram had a greater reduction in the number of drinking days during the entire study than those treated with placebo
- According to a 2014 meta-analysis, based on open-label studies, disulfiram is a safe and efficacious treatment for alcohol use disorder



California Indian Countr

 Γ rib

Off Label use of Gabapentin for AUD

- Mechanism: decreases excitation by decreasing release of glutamate. Increases GABA (inhibitory response).
- Safe and effective for mild alcohol withdrawal (benzos are gold standard)
- For relapse prevention -indicated as second-line or alternative to FDA approved meds (naltrexone and acomprosate)
- Early abstinence improves sleep, cravings and mood; factors associated with relapse.
- Gabapentin + naltrexone, better than naltrexone alone (Anton et al)
- Monitor for misuse -higher risk in OUD, polysubstance use disorder, prisoners

Modesto-Lowe et al. Cleveland Clinic Journal of Medicine December 2019,86(12)815-823

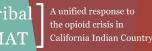
[rib

Pros and Cons of AUD Medications

A unified response to the opioid crisis in California Indian Country



	Naltrexone	Acamprosate	Disulfiram
Abstinence required? Goal: reduced drinking vs abstinence?	Abstinence not needed	Abstinence increases effectiveness	Requires abstinence (caution hidden forms of etoh, i.e. mouthwash)
Metabolized by	Liver avoid >5x upper limit of normal (AST/ALT)	Renally cleared Contraindicated if <u>CrCl</u> <30	Liver
Side Effects	Fatigue, GI effects, nausea, dizziness, headache	GI, Diarrhea in 10-15%	*disulfiram reaction Contraindicated in significant CAD, psychosis, known hypersensitivity
Dosing	Daily oral (QD) Monthly injectable	2 pills (666mg) three times a day (TID)	Once Daily (125- 500mg)
Opioid Use?	No	Yes	Yes



When, how and what to prescribe to treat AUD?

- Consider when inadequate response to counseling
- Review pros and cons with patient, keeping in mind health status (hepatic, renal function) and patient goals: abstinence vs reduction
- On opioids or planned elective surgery
- Motivation and adherence capability
- If inadequate response, medications can be used sequentially or in combination and can be restarted in case of relapse
- Assess for external challenges

Outpatient Management of Alcohol Withdrawal Syndrome (AWS)

- Mild to moderate AWS can be treated outpatient
- No significant comorbid conditions
- Support person willing to monitor
- Benzodiazepines gold standard for treating AWS
- Anticonvulsants may be effective, have less abuse potential but they do not prevent seizures or delirium tremens
- Ideal to see patients daily



Oral Medications Used to Treat AWS



Triba

A unified response to

the opioid crisis in

Table 4. Fixed and Symptom-Triggered Dosing for Oral **Alcohol Withdrawal Medications**

Table 3.

(Trileptal)

Oral Medications Used to Treat Alcohol Withdrawal Syndrome

900 mg

Alcohol Withdrawal Medications			TYPICAL COMMON ADVERSE			
			MEDICATION	SINGLE DOSE	EFFECTS	CONTRAINDICATIONS
Medication	Fixed schedule	Symptom-triggered schedule*	Benzodiazepines			
Day 1			Chlordiozopovida	25 to 50	Codation fatious	Live cross situate drug (slass
Diazepam (Valium)	10 mg every 6 hours	10 mg every 4 hours	Chlordiazepoxide		Sedation, fatigue,	Hypersensitivity to drug/class
Chlordiazepoxide (Librium)	25 to 50 mg every 6 hours	25 to 50 mg every 4 hours	(Librium)	mg	respiratory depression,	ingredient, severe hepatic impairment, avoid abrupt withdrawal
Lorazepam (Ativan)	2 mg every 8 hours	2 mg every 6 hours	Diazepam	10 mg	retrograde amnesia,	
Day 2			(Valium)		ataxia, dependence	
Diazepam	10 mg every 8 hours	10 mg every 6 hours			and abuse	
Chlordiazepoxide	25 to 50 mg every 8 hours	25 to 50 mg every 6 hours	Lorazepam	2 mg		
Lorazepam	2 mg every 8 hours	2 mg every 6 hours	(Ativan)			
Day 3						
Diazepam	10 mg every 12 hours	10 mg every 6 hours	Oxazepam	15 to 30		
Chlordiazepoxide	25 to 50 mg every 12 hours	25 to 50 mg every 6 hours		mg		
Lorazepam	1 mg every 8 hours	1 mg every 8 hours				
Day 4			Anticonvulsants			
Diazepam	10 mg at bedtime	10 mg every 12 hours				
Chlordiazepoxide	25 to 50 mg at bedtime	25 to 50 mg every 12 hours	Carbamazepine	600 to	Dizziness, ataxia,	Hypersensitivity to drug/class
Lorazepam	1 mg every 12 hours	1 mg every 12 hours	(Tegretol)	800 mg	diplopia, nausea,	ingredient, hypersensitivity to tricyclic
Day 5			(regretor)	ooo mg	vomiting	antidepressants, monoamine oxidase
Diazepam	10 mg at bedtime	10 mg every 12 hours			vorniting	inhibitor use within the previous 14 days,
Chlordiazepoxide	25 to 50 mg at bedtime	25 to 50 mg every 6 hours	Gabapentin	300 to		hepatic porphyria
Lorazepam	1 mg at bedtime	1 mg every 12 hours	(Neurontin)	600 mg		
	a SAWS (Short Alcohol Withdraw) Indrawal Assessment for Alcohol,		Oxcarbazepine	450 to		
Current montaice vviti	in and Assessment for Alconol,	nerisedy score > s.	(Trileptal)	900 ma		

Am Family Physician 2013 Nov 1;88(9):589-595

Behavioral Treatments

The FDA labeling on these medications is clear:

The medications should be used in combination with behavioral treatments for SUDs.

Good treatment is holistic, integrated and multifaceted, taking into account the physical, behavioral and spiritual wellbeing of the individual.

Medications can help us take care of the physical...

...we need to do the rest

