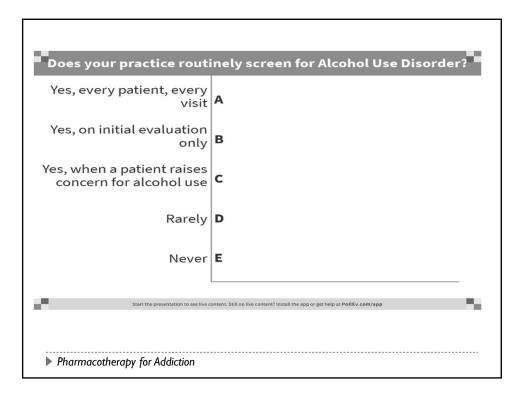
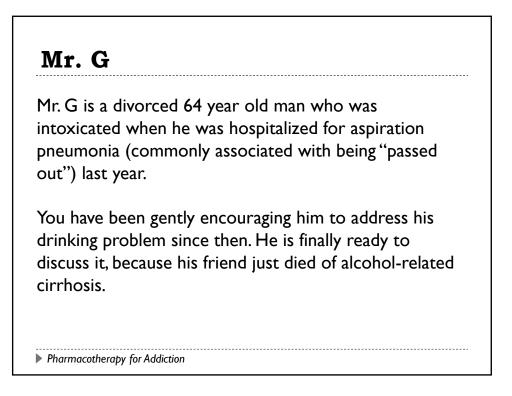


## Pharmacotherapy for Addiction Robyn Jordan, MD, PhD

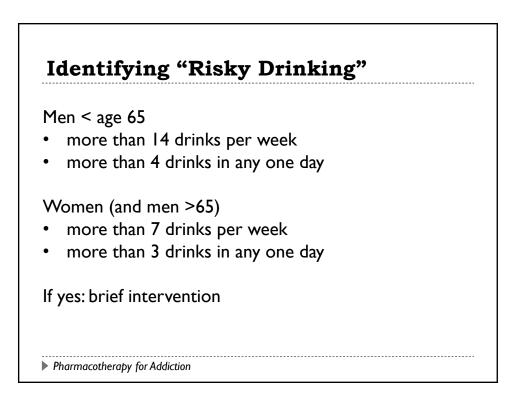


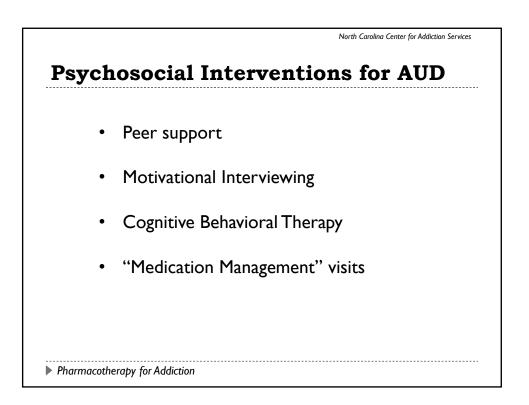
Do you routinely prescribe Naltrexone, Acamprosate and/or Antabuse for treatment of Alcohol Use Disorder?		
Yes, often		
I have, but rarely		
No because medications for alcohol use disorder are not effective		
I don't know enough about these medications to feel comfortable prescribing them		
other		
Start the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app		

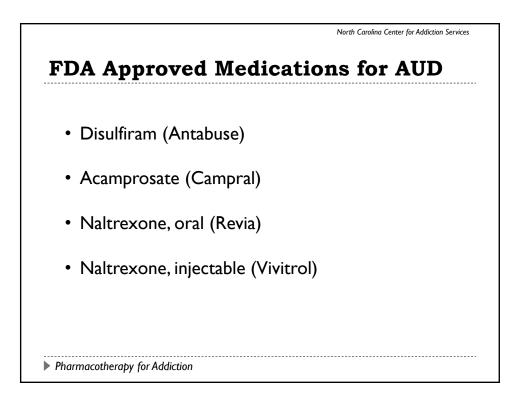


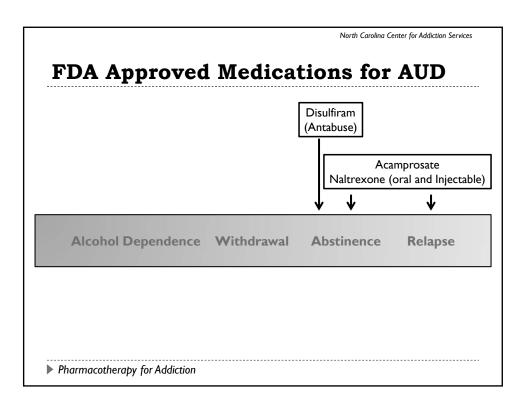
What medication would	d you consider offering Mr. G?	
Naloxone		
Naltrexone		
Antabuse		
Acamprosate		
None - medications are not helpful for alchol use disorder		
I have no clue - that's why I'm at this workshop		
Start the presentation to see live content, Ski	II no live content? Install the app or get help at PollEv.com/app	
Start the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app Pharmacotherapy for Addiction		

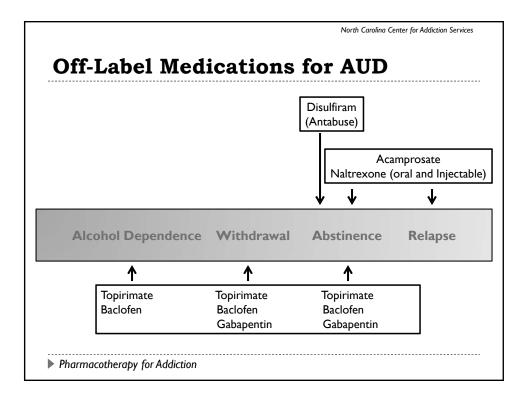
	DSM-IV Abuse <sup>a</sup>		DSM-IV Dependence <sup>b</sup>		DSM-5 Substance Use Disorders <sup>c</sup>	
Hazardous use	x	1	-	}≥3 criteria	x	≥2 criteria
Social/interpersonal problems related to use	x	≥1	-		x	
Neglected major roles to use	x	criterion	-		х	
Legal problems	x	J	-		-	
Withdrawal <sup>d</sup>	-	-	x		x	
Tolerance			x		x	
Used larger amounts/longer	-		x		х	
Repeated attempts to quit/control use	-	-	x		х	
Much time spent using	-		x		х	
Physical/psychological problems related to use	-		x		x	
Activities given up to use	-		x		x	
Craving					x	



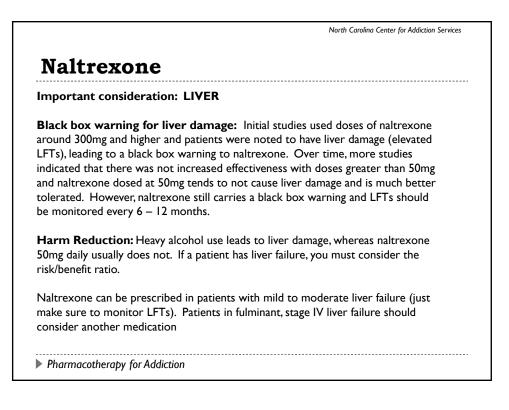




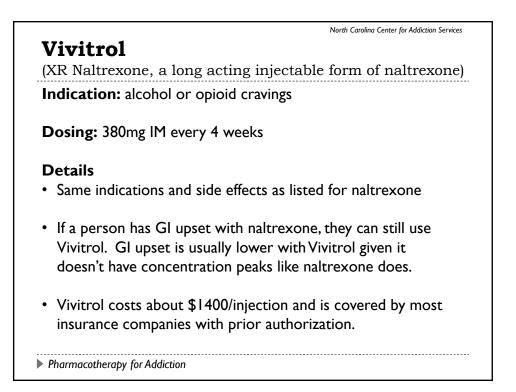


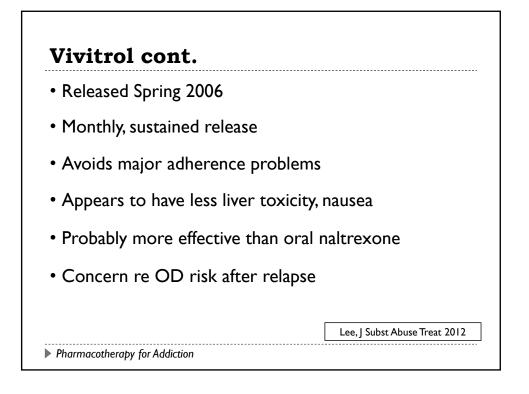


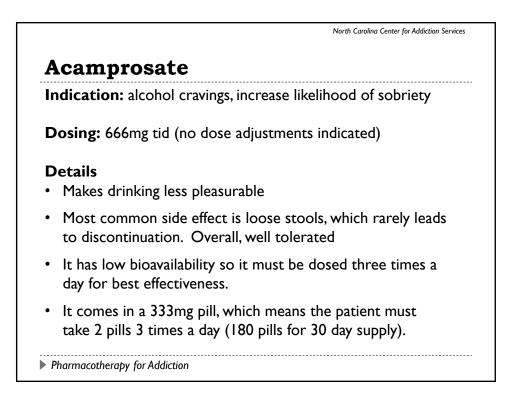
North Carolina Center for Addiction Services
Naltrexone
Indication: Alcohol (or opioid) cravings
<b>Dosing:</b> 50mg once daily (potential benefit at 100mg). Can start at 25 mg/day which may reduce risk of nausea.
<ul> <li>Details</li> <li>Most common side effect is nausea/vomiting, which can lead to discontinuation. Can recommend taking it with food</li> </ul>
<ul> <li>Recommend taking it in the morning, as this is when motivation tends to be the highest. Some patients prefer later in the day which may reduce nausea.</li> </ul>
<ul> <li>Check LFTs at baseline, after 1 month, and every 6 – 12 months</li> </ul>
Pharmacotherapy for Addiction



North Carolina Center for Addiction Services
rior to starting or suboxone)
nt to block the reward
igh affinity, higher than most or and preventing other
ergency (ie, MVA with from opioid management.
: pain management or because it will out-compete



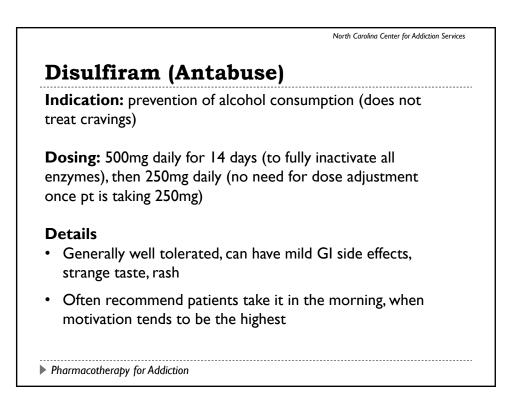




North Carolina Center for Addiction Services
Acamprosate cont.
• Due to tid dosing and pill burden, most patients choose to either not take acamprosate or if they do, compliance is often low.
• Excretion is through the kidneys, not metabolized by the liver, making it a good choice for patients with severe liver dysfunction.
• For those with hepatorenal failure, acamprosate can still be used. If there is renal insufficiency, consult with a pharmacist regarding using a lower dose.
<ul> <li>Acamprosate has little drug-drug interactions and is safe to use in most circumstances</li> </ul>
Pharmacotherapy for Addiction

	North Carolina Center for Addiction Services
Disulfiram (Antabuse)	
<b>'THE MEDICINE THAT MAKES</b>	YOU SICK"
BREAKDOWN OF ALCOHOL	
STEP 1: Alcohol Dehydrogenase ↓ STEP 2: Aldehyde Dehydrogenase	

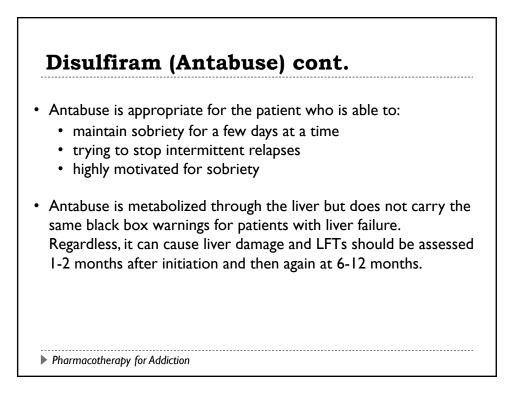
	North Carolina Center for Addiction Services
Disulfiram (Antabuse)	
"THE MEDICINE THAT MAKE	ES YOU SICK"
BREAKDOWN OF ALCOHOL	
STEP 1: Alcohol Dehydrogenase ↓ STEP 2: Aldehyde Dehydrogenase	
BREAKDOWN OF ALCOHO	L
STEP I: Alcohol Dehydrogenase ANTABUSE	Tachycardia Flushing Headache Nausea Vomiting

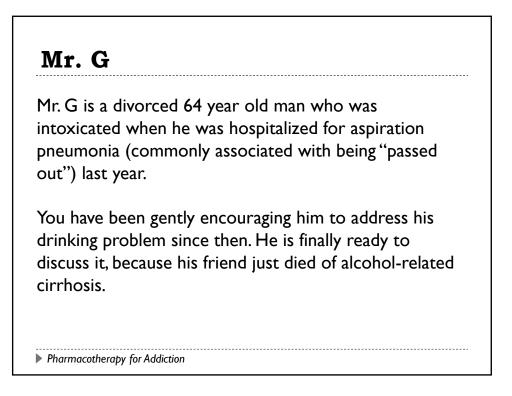




- Recommend family members assist with reminding patients to take it, as long as the family relationship is favorable and not coercive
- Recommend patients use mouthwash without alcohol
- "Normal" amount of hand sanitizer use is not a problem
- Package insert reports Antabuse is effective up to 14 days, but patient's report it's effective for about 1 week.
- Antabuse is not appropriate for the patient who is drinking daily. This either sets the patient up for failure or the patient simply will not fill the prescription.

Pharmacotherapy for Addiction





What medication would	d you consider offering Mr. G?	
Naloxone		
Naltrexone		
Antabuse		
Acamprosate		
None - medications are not helpful for alchol use disorder		
I have no clue - that's why I'm at this workshop		
Start the presentation to see live content, Ski	II no live content? Install the app or get help at PollEv.com/app	
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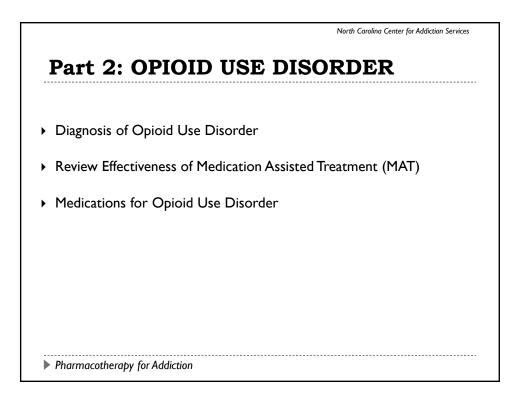
## **New Patient Evaluation**

During a new patient evaluation, a 24 year old male reports that he drinks a 6 pack of beer on 1 or 2 nights per weekend. He recently got a DUI after driving home from his friends house, and now has a suspended license. He makes less money now that he can't make deliveries for work. His wife is annoyed that he still spends money on beer and that she has to drive him to work now

Pharmacotherapy for Addiction

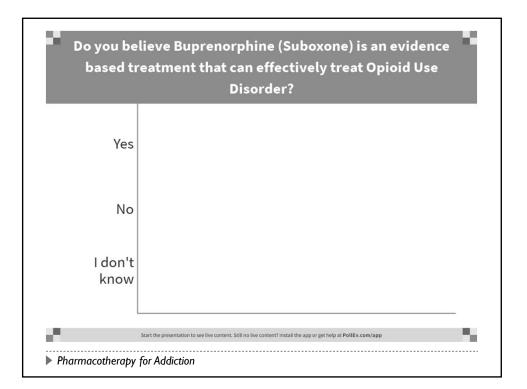
Alcohol Use Disorder, Severe	
Alcohol Use Disorder, Moderate	
Alcohol Use Disorder, Mild	
Risky Drinking	
His alchol use is not a problem	
Start the presentation	to see live content. Still no live content? Install the app or get help at PollEv.com/app

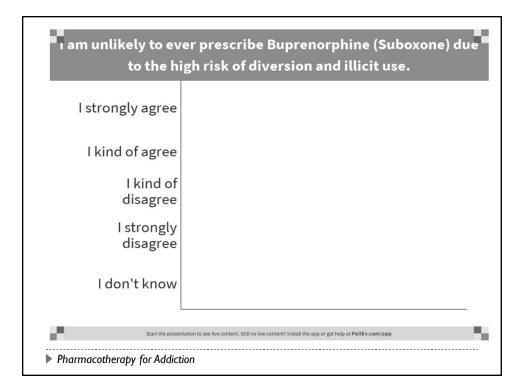
Would	you consider offering:	
Naltrexone		
Acamprosate		
Antabuse		
None of the above		
I'd like to prescribe something, but I am not sure which one would be appropriate		
Start the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app  Pharmacotherapy for Addiction		



Does your practice routinel	y screen for Opioid Use Disorder?		
Yes, every patient, every visit			
Yes, on initial evaluation only			
Yes, when a patient raises concern for opioid use disorder			
Rarely			
Never			
	Start the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app		
Pharmacotherapy for Addiction			

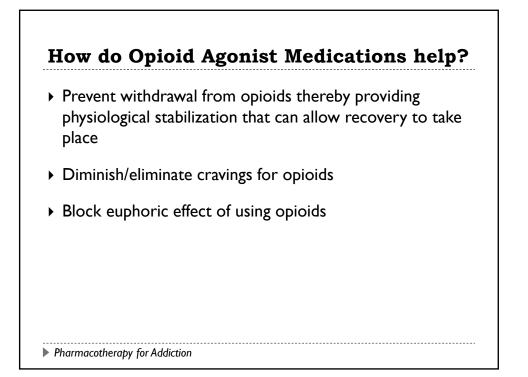
		rol for treatment of Opioid Use sorder?
Ye	es, often	
I have, b	ut rarely	
No, because medications for Op Disorder are not e		
I don't know enough about these med to feel comfortable prescribi		
	other	

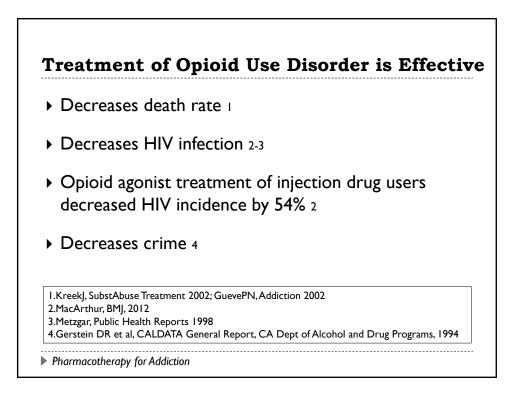


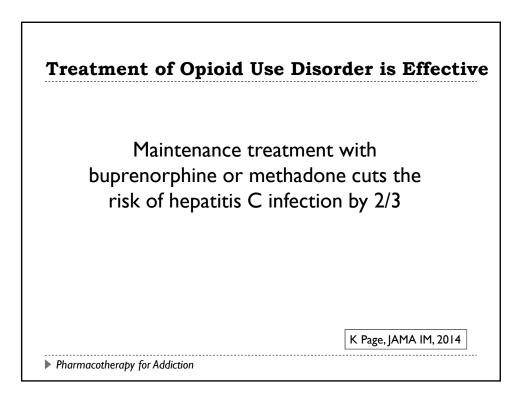


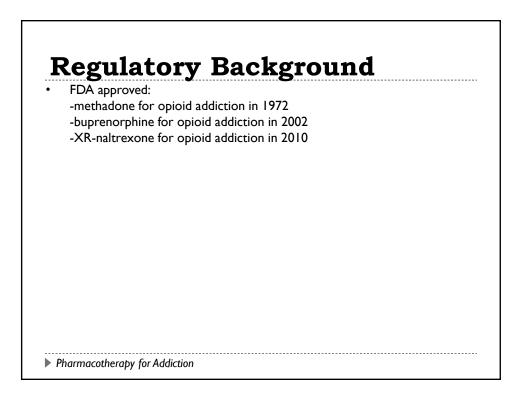
	DSM-IV Abuse <sup>a</sup>		DSM-IV Dependence <sup>b</sup>		DSM-5 Substance Use Disorders <sup>c</sup>	
lazardous use	X	≥1 criterion	-	}≥3 criteria	x	≥2 criteria
ocial/interpersonal problems related to use	x		-		x	
leglected major roles to use	X		-		х	
egal problems	x		-		-	
Vithdrawal <sup>d</sup>	-	_	x		x	
olerance	-		x		х	
Jsed larger amounts/longer	-		x		x	
repeated attempts to quit/control use	-		x		х	
Auch time spent using	-		x		x	
hysical/psychological problems related to use	-		x		x	
activities given up to use	-		x	J	x	
raving			-		x	J

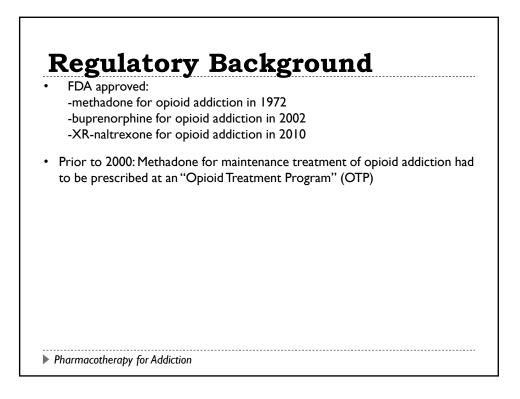


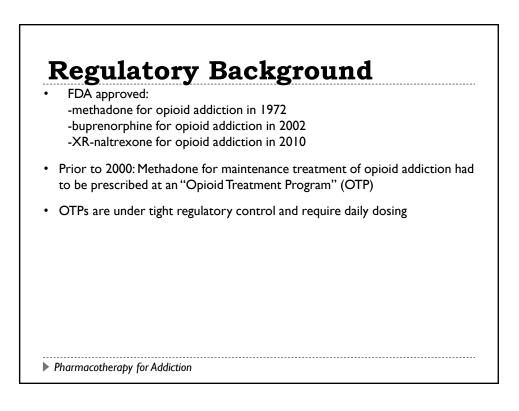


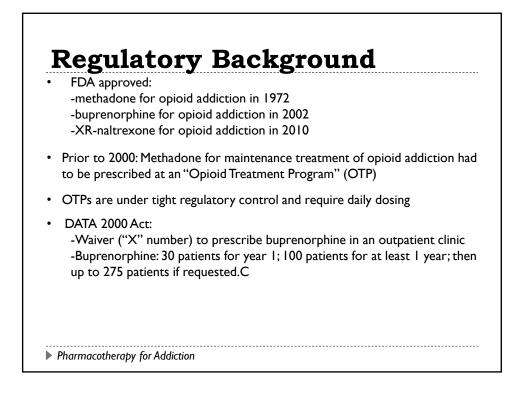


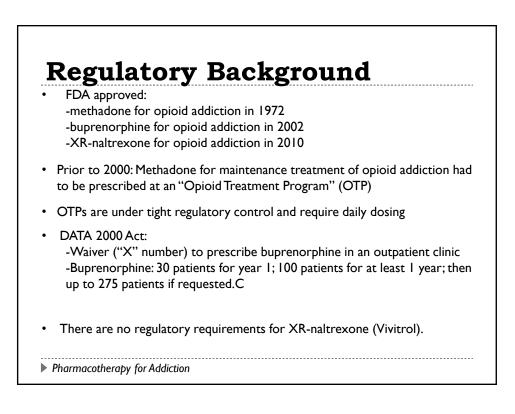


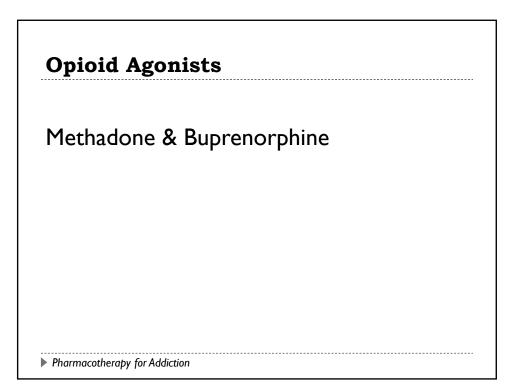




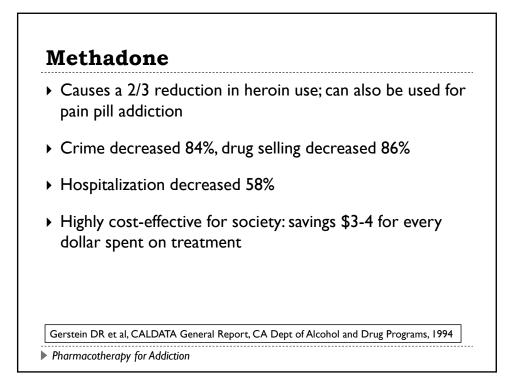


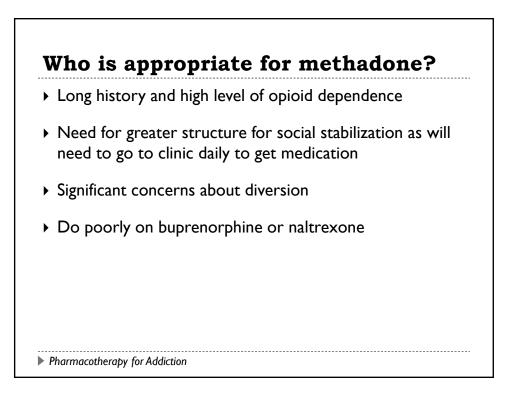


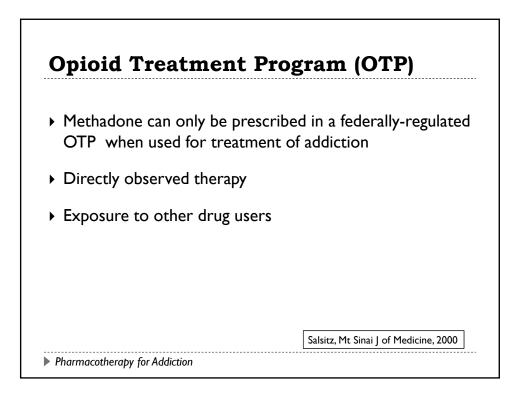


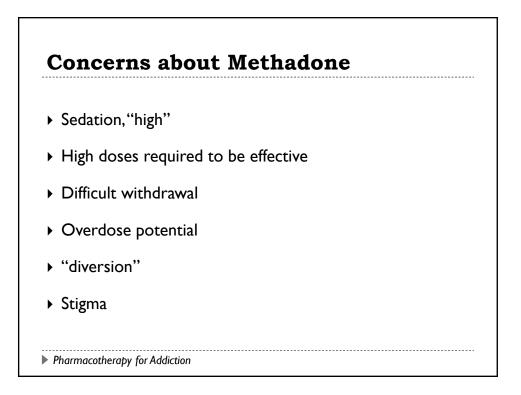


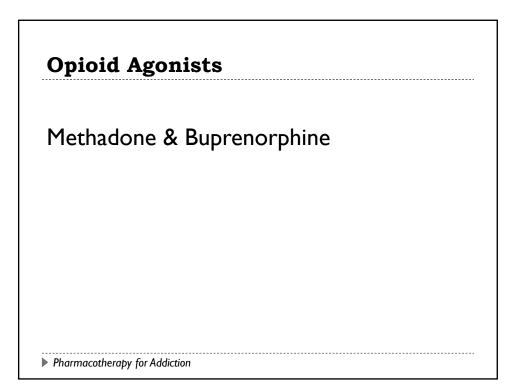
Ме	thadone
▶ Full	Mu receptor agonist
▶ Lon	g-acting, half-life 24-60 hours
with	vents withdrawal symptoms, including craving, nout the opioid euphoria if targeted at "right" dose, erally 80-120 mg/day
	gerous in overdose and when combined with other ative medications including benzodiazepines and hol
▶ Pharn	nacotherapy for Addiction





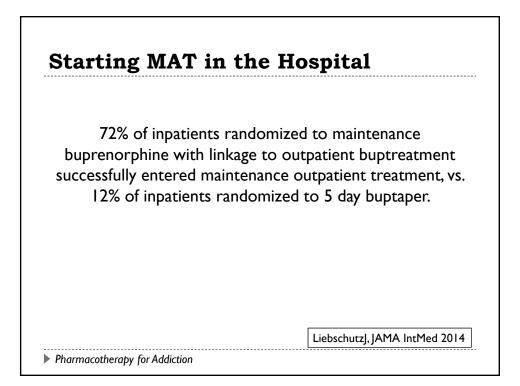


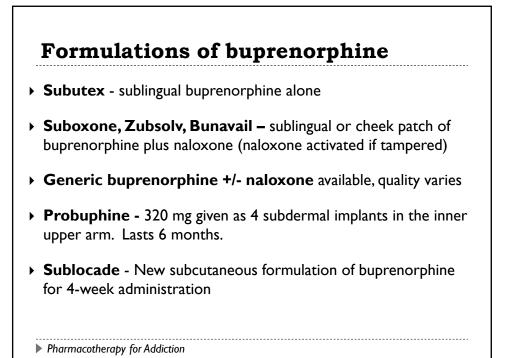


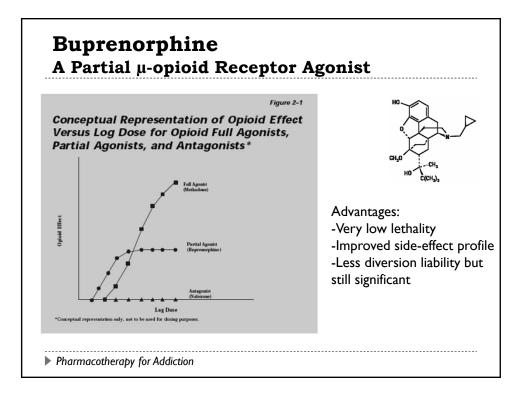


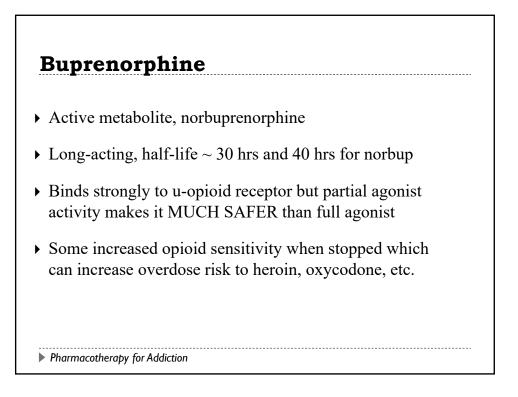
	Buprenorphine	Placebo
Retained at I year	70%	0
Died	0	20%
40 young heroin use Buprenorphine 16 n taper + placebo All received course	ng/day vs	
Buprenorphine 16 n	ng/day vs ing, groups	bup recipients

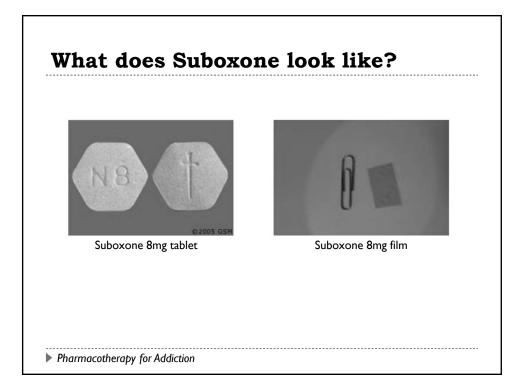
Author, Journal	Year "n"		Setting	% still participating in treatment	
Fudala, NEJM	2003	461	Multicenter research trial	57% @ 6 months	
Alford, JGIM	2006	85	Acad med Ctr/ Community clinic; ½ patients homeless; nurse case mgr	81% @ 12 months	
Mintzer, Ann Fam Med	2007	99	4 primary care practices	54% @ 6 months	
Cunningham, Fam Med	2008	41	Urban community health center	71% @ 3 months	
Soeffing, J Subst Abuse	2009	255	Urban academic health center	57% @ 12 months	

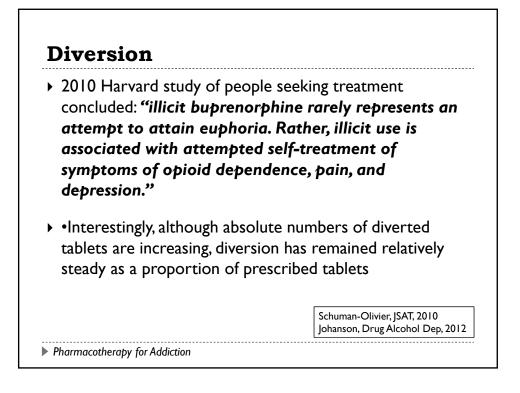


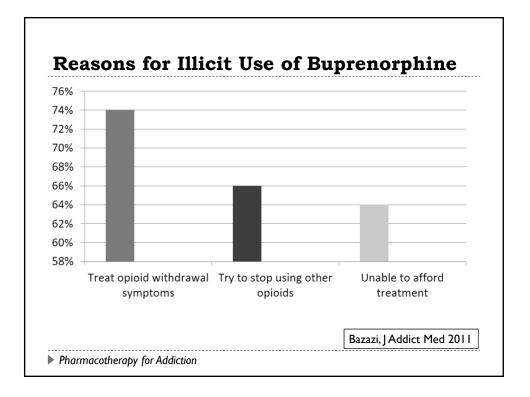




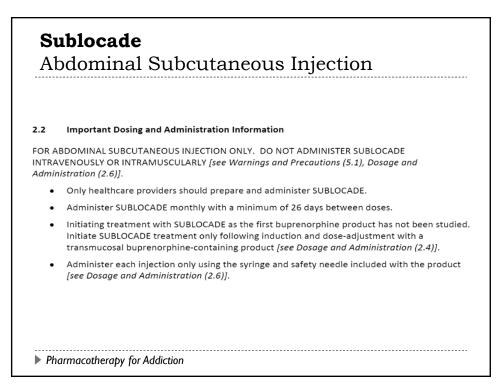


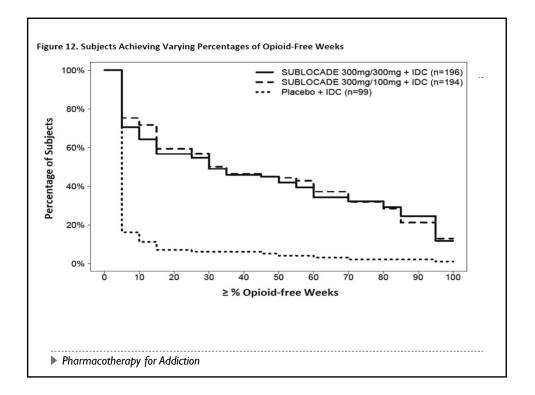


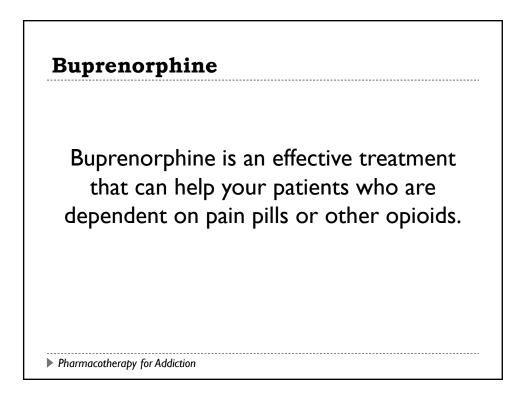


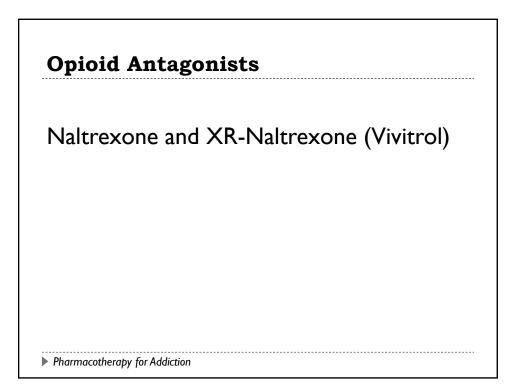


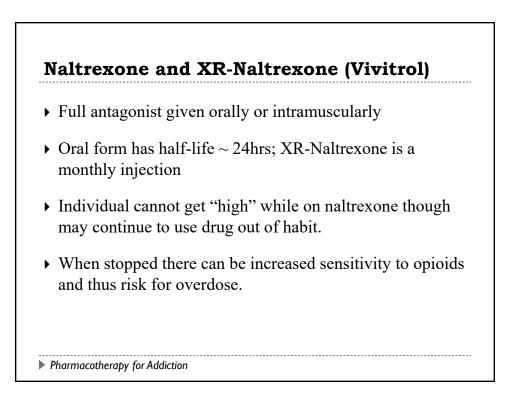
## Sublocade SUBLOCADE contains buprenorphine, a partial opioid agonist, and is indicated for the treatment of moderate to severe opioid use disorder in patients who have initiated treatment with a transmucosal buprenorphine-containing product, followed by dose adjustment for a minimum of 7 days. SUBLOCADE should be used as part of a complete treatment program that includes counseling and psychosocial support.

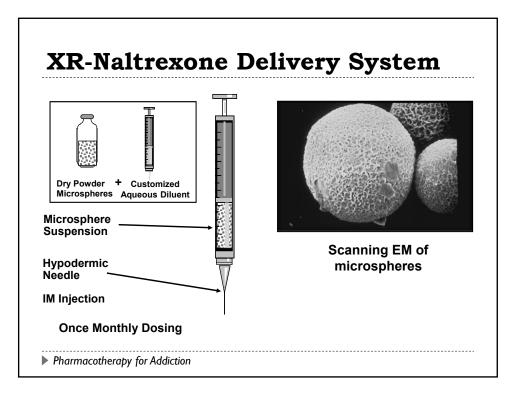


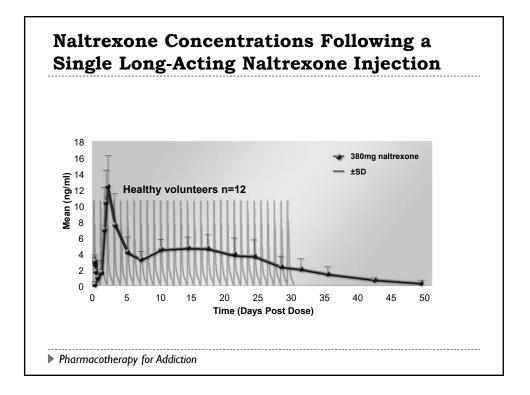


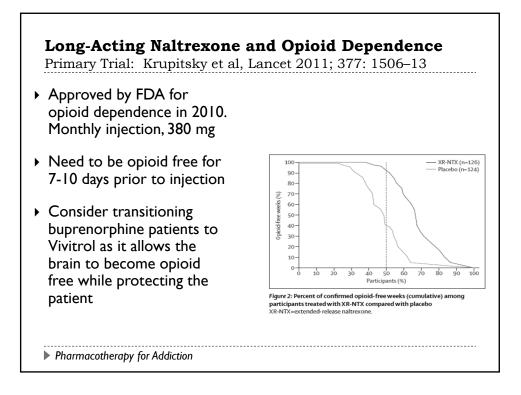












# Buprenorphine vs Naltrexone Lancet Nov 2017 570 patients in multiple US community programs

- From inpatient detox, randomized to bupe vs naltrexone
- Followed for 6 months
- Primary outcome: rate of opioid relapse

### RESULTS

- > 28% of naltrexone arm unable to tolerate induction
- As a result, buprenorphine was more effective in intention-to-treat analysis
- If only included those who successfully inducted, both treatments were similar in rate of opioid relapse as well as OD events

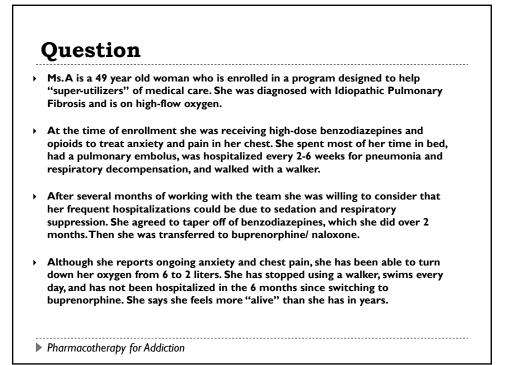
### Take Away

- Naltrexone can be an effective treatment, but is likely more appropriate
- for patients with lower severity disease and who can tolerate induction

Pharmacotherapy for Addiction

# Ouestion Mr. R is a 24 y/o man who started taking opioid pain pills after a sports injury. He has progressed to snorting the pills, and then smoking them. He buys the pills from several physicians. He recently lost his management job after his boss found him sleeping at his desk and required a drug test, which showed opioids. Mr. R comes to see you to talk about how he can get a handle on this problem. He states that he does not think he is really addicted because he just smokes the pills and does not inject. Pharmacotherapy for Addiction

what medi	cation would you consider?
Vivitrol	
Sublocade	
Suboxone	
Naltrexone	
Methadone	
Medications are not indicated	
I don't feel I know enough to make a recommendation	

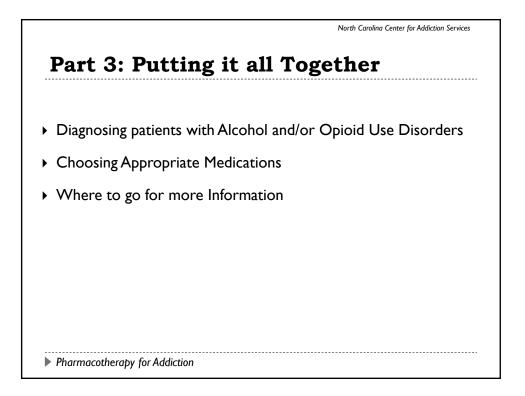


	better, when would you recommend <b>better</b> , when would you recommend between the suboxone?
Taper and d/c in 3 months	A
Taper and d/c over the next year	В
Continue MAT treatment as long as it's indicated, indefinitely if needed	c
Start the presentation to see live con Pharmacotherapy for Addiction	tent. Still no live content? Install the app or get help at PollEv.com/app

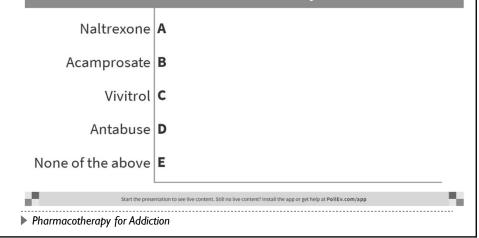
## Integrating Buprenorphine, Methadone and Naltrexone (Vivitrol) in Clinical Practice

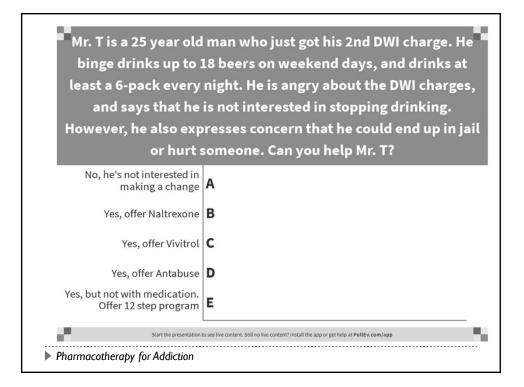
- Majority of opioid dependent patients coming to an outpatient setting are most likely to be buprenorphine candidates
- Patients with heavy opioid use and long duration and/or with social chaos/diversion concerns may do best in a methadone program if available
- Patients with limited but concerning opioid use and able to be opioid free for 7-10 days may be good XR-Naltrexone candidates if affordable

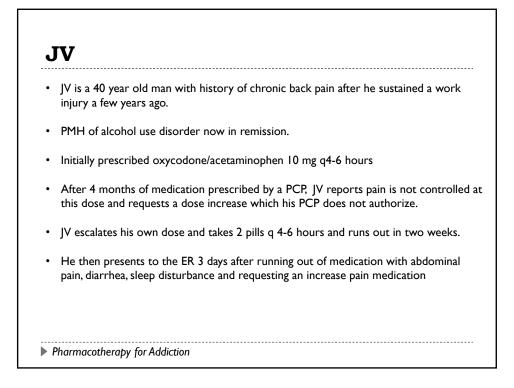
Pharmacotherapy for Addiction



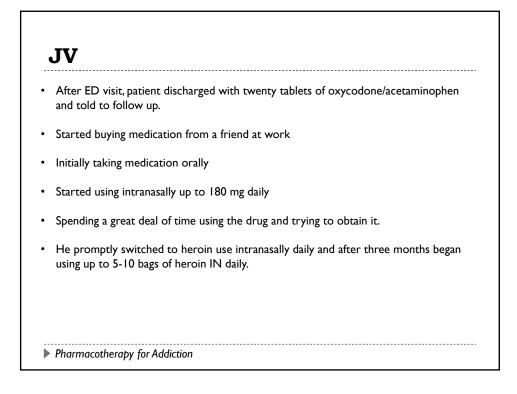
Ms. R is a 42 year old woman who just completed an inpatient detox from alcohol. She has a history of alcohol-withdrawalrelated seizures. She has been attending AA but is asking for help, as she is having strong cravings to drink and is feeling anxious. What medication would you consider?

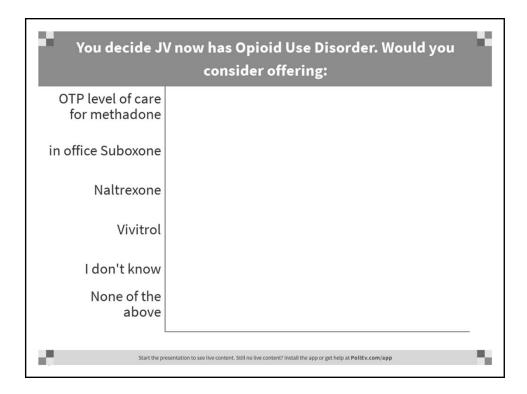


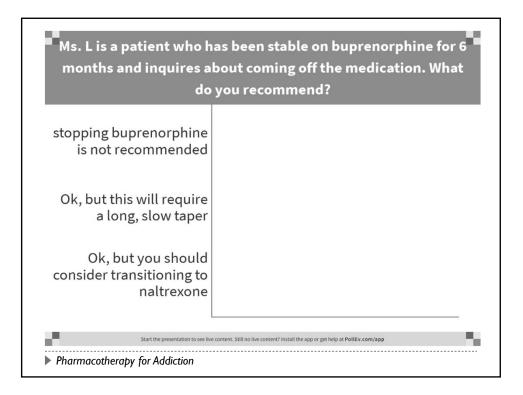


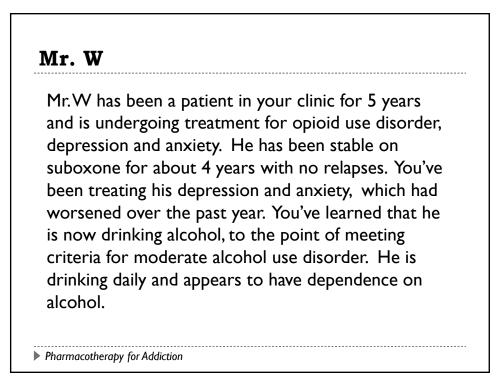


Doe	s JV meet criteria for Opioid Use Disorder?
Yes	
No	
l'm not sure	
	Start the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app









You want to offer a medication for alcohol use disorder. Which medication would you consider?		
Naltrexone		
Vivitrol		
Acamprosate		
Antabuse		
<ul> <li>Pharmacotherapy f</li> </ul>	tart the presentation to see live content. Still no live content? Install the app or get help at PollEv.com/app	

