

## **SBIRT Training**

Great Lakes-Addiction Technology Transfer Center Great Lakes-Mental Health Technology Transfer Center

## Brought To You By:









### **About Us**

 The Great Lakes ATTC, MHTTC, and PTTC are funded by the Substance Abuse and Mental Health **Services Administration** (SAMHSA).



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# Screening Brief Intervention & Referral to Treatment

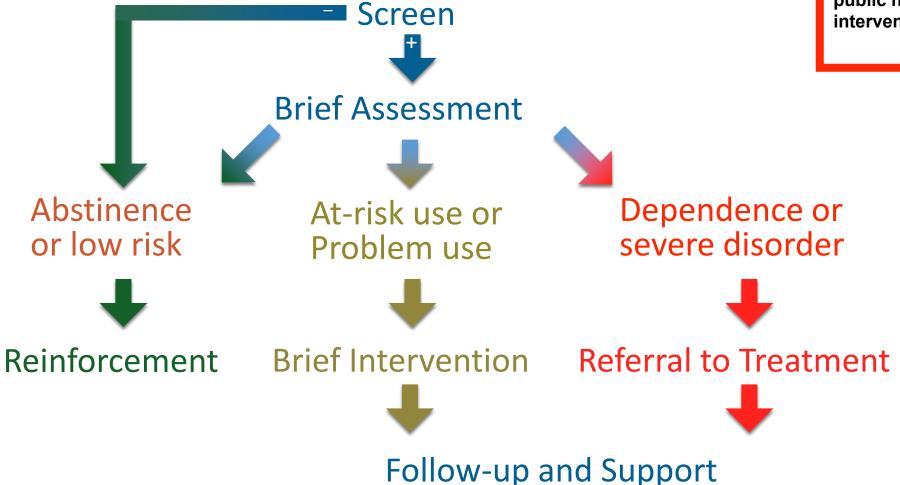
## Objectives for today;

- Describe from a clinical perspective how and why to administer and score population appropriate, sensitive and specific screening tools for the identification of SUD's
- Recognize the value of universal screening for SUD's and other behavioral health issues as a public health approach

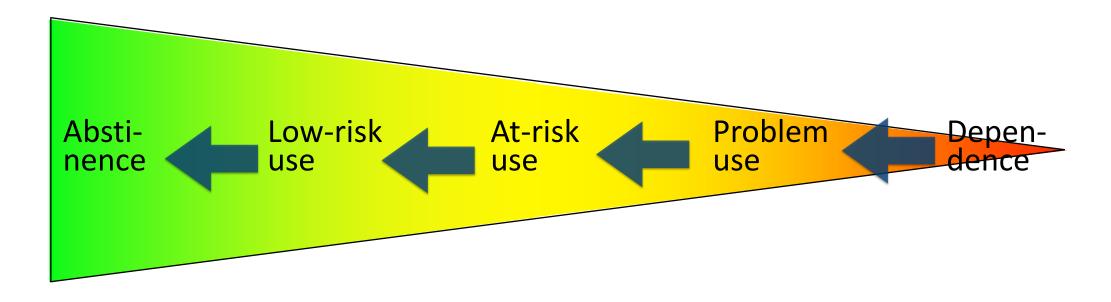
A one-on-one clinical prevention service

## SBIRT Overview

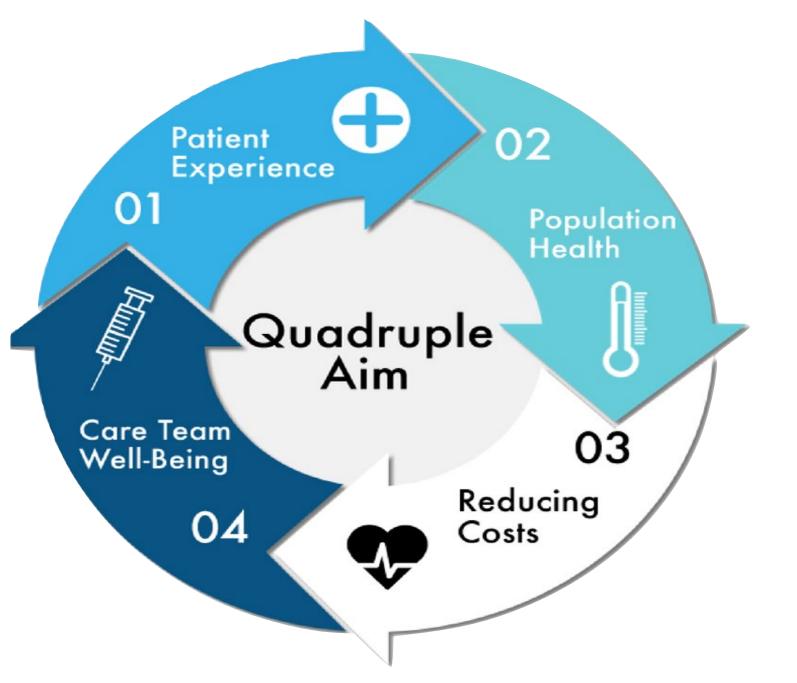
When delivered universally, a population/ public health intervention



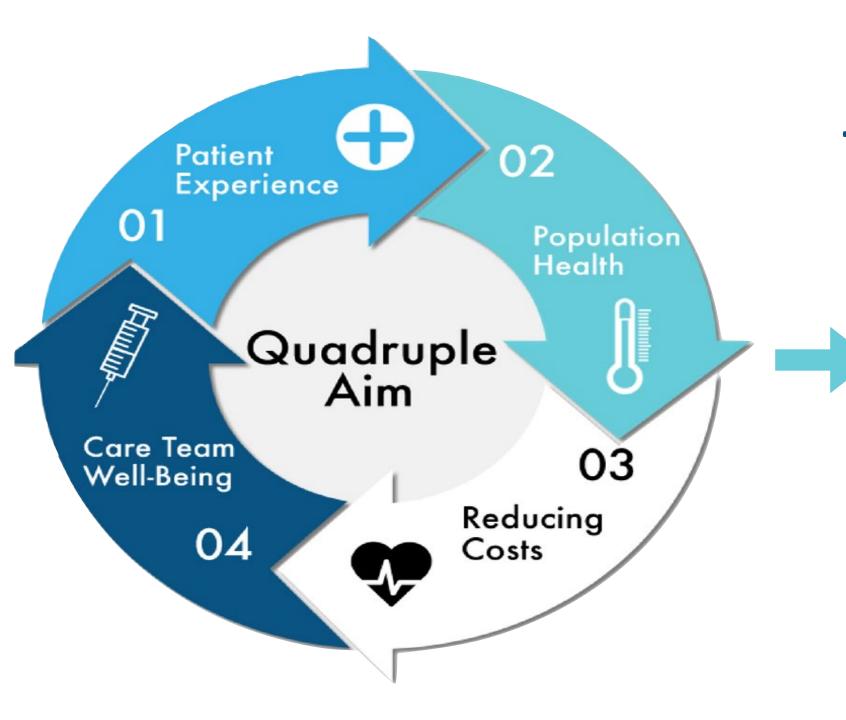
## The Goal of SBIRT



Move each patient and client and entire patient and client populations to the left as far as possible







# Now More Than Ever!





https://go.cms.gov/2Yyy0sX









#### Between 2006 and 2011

- Helped 33 sites screen >110,000 patients and deliver >20,000 interventions
- Documented high patient satisfaction: 4.3 to 4.9 on a 5-point scale
- Attained substantial improvements in behavioral outcomes:

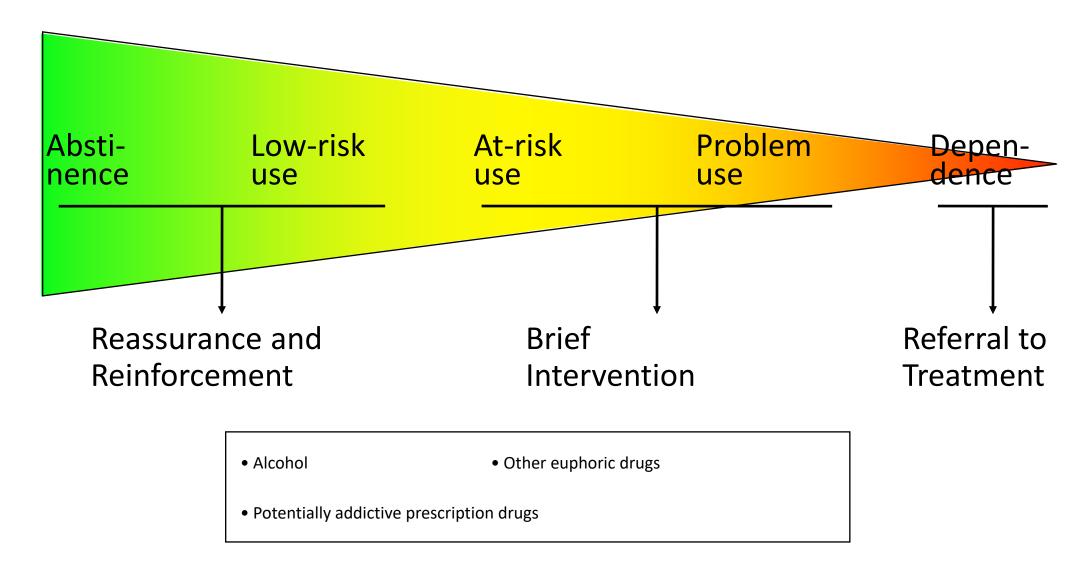


Reduced net two-year Medicaid costs by \$782 per patient screened

## Outline-(Page 8-10)

- The substance use continuum
- Rationale for universal SBIRT
- Steps: screening, brief assessment, intervention/referral
- Selected principles of motivational interviewing
- The first SBIRT interaction: description, demo, practice
- Follow-up
- Implementation
- Pharmacotherapy

## The Substance Use Continuum



## Abstinence



- Virtually no use of alcohol or drugs
- Lowest risk category
- Some who abstain are at higher risk than others ...
  - Previous problems
  - Problems among biological relatives
  - ... and may benefit from support



# Standard Drink – ~14 grams of ethanol

12 fl oz of regular beer

8-9 fl oz of malt liquor (shown in a 12-oz glass)

5 fl oz of table wine 3-4 oz of fortified wine (such as sherry or port; 3.5 oz shown) 2-3 oz of cordial, liqueur, or aperitif (2.5 oz shown) 1.5 oz of brandy (a single jigger or shot)

1.5 fl oz shot of 80-proof spirits ("hard liquor")



about 5% alcohol



about 7% alcohol



about 12% alcohol



about 17% alcohol



about 24% alcohol



about 40% alcohol



about 40% alcohol

### How many drinks are in common containers?

Below is the approximate number of standard drinks in different sized containers of

regular beer	malt liquor	table wine	80-proof distilled spirits	
12 fl oz = <b>1</b> 16 fl oz = <b>1</b> /3 22 fl oz = <b>2</b> 40 fl oz = <b>3</b> /3	12 fl oz = <b>1½</b> 16 fl oz = <b>2</b> 22 fl oz = <b>2½</b> 40 fl oz = <b>4½</b>	` •	a shot (1.5 oz glass/50 ml bottle) = $1$ a mixed drink or cocktail = $1$ or more 200 ml (a "half pint") = $4$ % 375 ml (a "pint" or "half bottle") = $8$ % 750 ml (a "fifth") = $17$	





Problem Depenuse dence



Low-risk use



Problem Depenuse dence

### Low-Risk Users

#### Adhere to low-risk drinking guidelines

and

Do not use drugs often taken to get high

and

Do not misuse potentially addictive prescription medication

#### At-Risk Users

#### **Exceed low-risk drinking guidelines**

or

Use drugs often taken to get high

or

Misuse potentially addictive prescription medication

Any combination of the above

Do not qualify for problem use or dependence

## Research-Based Low-Risk Drinking Guidelines



#### NIAAA scientists reviewed about 200 studies

Alcohol quantity and frequency

VS

Negative consequence

## Research-Based Low-Risk Drinking Guidelines

	In any occasion*	Per week
	No more than	No more than
Men	4	14
	standard drinks	standard drinks
	No more than	No more than
Women	3	7
	standard drinks	standard drinks

<sup>\*</sup>A few to several hours

# For some the only way to lower risk is abstinence

- Certain health conditions, such as liver disease or pancreatitis
- Medications that should not be taken with alcohol
- Susceptible to poor memory, eg, individuals with dementia
- Susceptible to falls
- Pregnant women
- Alcohol dependence







Problem Depenuse dence Abstinence Low-risk use

At-risk use

Problem Depenuse dence

### Low-Risk Users

Adhere to low-risk drinking guidelines

and

Do not use drugs often taken to get high

and

Do not misuse potentially addictive prescription medication

#### At-Risk Users

Exceed low-risk drinking guidelines

or

Use drugs often taken to get high

or

Misuse potentially addictive prescription medication

Any combination of the above

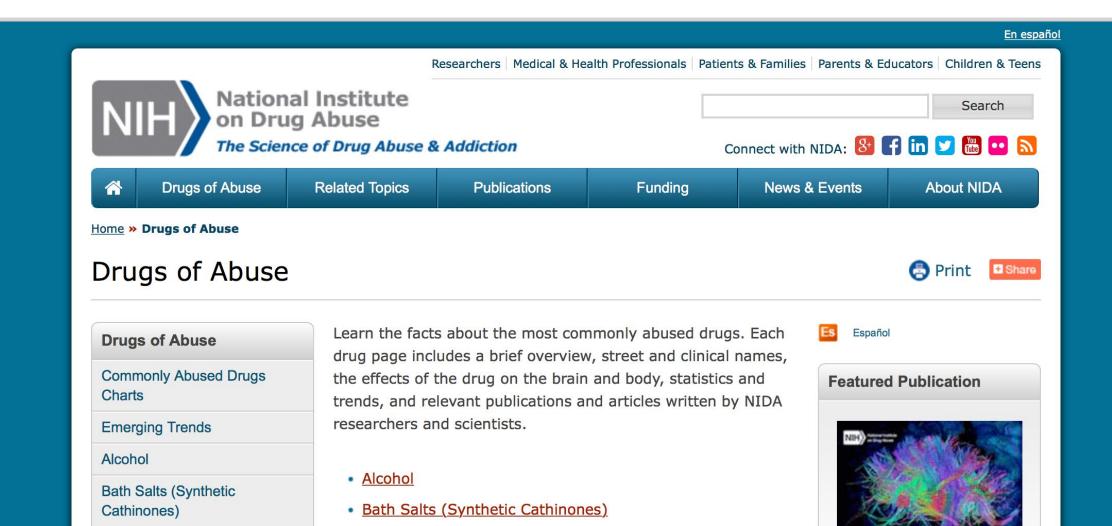
Do not qualify for problem use or dependence

# Risks of Marijuana Use

- Hinders thinking, memory and learning
- Causes irreversible reductions in IQ for regular, heavy users
- May cause breathing problems
- Harms developing fetuses
- May trigger panic attacks
- May trigger or cause schizophrenia
- Leads to dependence in
  1 in 11 users (alcohol: 1 in 20 users)
  1 in 6 users who started in their teens
- 25% to 50% of daily users



# For authoritative information on drugs: www.drugabuse.gov/drugs-abuse





Abstinence use At-risk Problem Depenuse dence

Low-Risk Users	At-risk Users	
Adhere to low-risk drinking guidelines	Exceed low-risk drinking guidelines  or	
Do not use drugs often taken to get high	Use drugs often taken to get high	
Do not misuse potentially addictive prescription medication	Misuse potentially addictive prescription medication	
	Any combination of the above	

Do not qualify for problem use or dependence

# Prescription Drug Misuse

	Opioids	Sedatives	Stimulants
Therapeutic uses	Pain Cough	Anxiety Insomnia	Attention deficit disorders Resistant depression
Examples - generic names	Hydrocodone Hydromorphone Oxycodone	Alprazolam Diazepam Triazolam	Amphetamine sulfate Dextro-amphetamine Methylphenidate
Examples - trade names	Lortab, Vicodin Dilaudid, Percocet, OxyContin	Xanax Valium Halcion	Evekeo Adderal, Dexedrine Concerta, Ritalin

# Prescription Drug Misuse

Use of a potentially addictive prescription medication that ...

- was not prescribed for that individual
- was prescribed but
  - taken in higher doses or more frequently than prescribed
  - taken for a purpose other than that prescribed
  - obtained deceptively





<u>Low-Risk Users</u>	At-risk Users
Adhere to low-risk drinking guidelines	Exceed low-risk drinking guidelines  or
Do not use drugs often taken to get high	Use drugs often taken to get high
Do not misuse potentially addictive prescription medication	Misuse potentially addictive prescription medication
	Any combination of the above

Do not qualify for problem use or dependence

## Problem Use



- Using alcohol and/or drugs
- Suffered negative consequences of substance use in the past year
- Does not fit the criteria for dependence

# Realms of Negative Consequences

Psychological

Financial

Family relationships

Legal

Other social relationships

Religion / Spirituality

Work / School

Biomedical

## Common Biomedical Consequences

#### Alcohol & drugs cause:

- Injury & disability
- Viral hepatitis
- HIV/AIDS
- Other STIs
- Unplanned pregnancies
- Poor birth outcomes
- Psychiatric disorders

#### Unhealthy drinking can cause:

- Hypertension
- Lipid disorders
- Heart disease
- Stroke
- Neuropathy
- Dementia

- Cancers
  - Oropharynx Liver
  - Esophagus Colon
  - Breast
- Sleep disorders
- GERD & gastritis
- Hepatitis & pancreatitis

#### <u>Drinking can hinder treatment for:</u>

- All of the above conditions
- Diabetes

All chronic diseases

Absti- Low-risk At-risk Problem Depennence use use dence

Most dependent patients or clients have problem use

Loss of control

Preoccupation with using or obtaining

Urges and cravings

Physical dependence

Compulsive use



Physical dependence - the propensity to experience withdrawal symptoms on s

Substance(s)	Symptoms	Notes
Alcohol & Sedatives	Tremors, agitation, hallucinations, seizures Most severe stage for alcohol: DTs	Most dangerous
Opioids	Agitation, diarrhea, abdominal cramping, muscle aches & pain, tearing, runny nose	Most uncomfortable
Cocaine and stimulants	Dysphoria, fatigue, sleepiness	



#### Substance dependence without physical dependence:

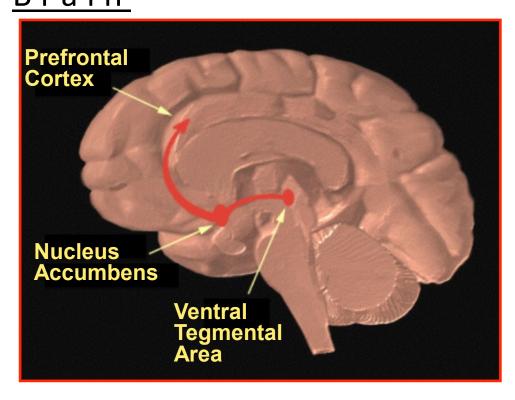
- Most young alcohol-dependent individuals do not withdraw when they quit drinking
- Many marijuana-dependent individuals do not withdraw when they quit

#### Physical dependence without substance dependence:

 Individuals who take prescription opioids for pain for ≥2 weeks and suddenly quit will withdraw, yet most do not show other symptoms of substance dependence

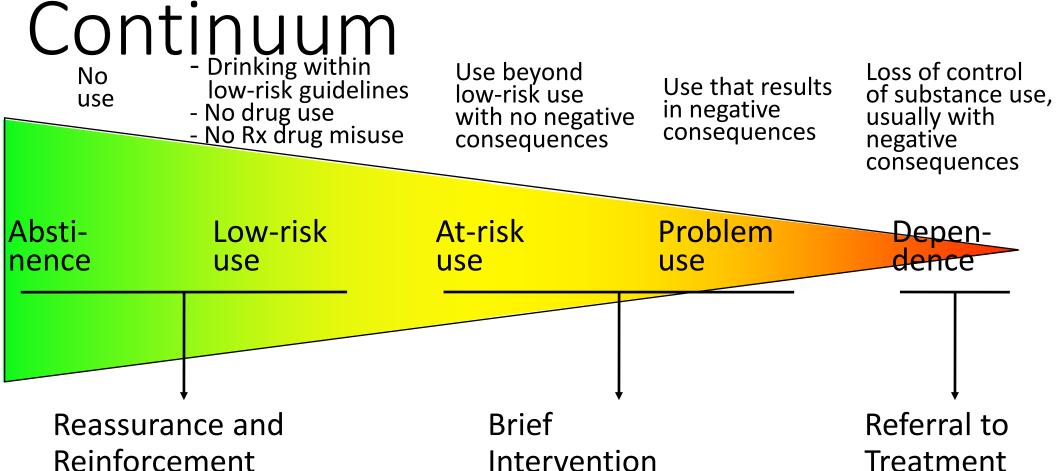
Absti- Low-risk At-risk Problem Depennence use use dence

#### <u>The Pleasure-Reward Pathway of the Human</u> Brain



- Generates sensation of pleasure from eating, drinking water and having sex
- Promotes survival of the individual and continuation of the species
- With dependence, gets hijacked and drives substance use
- Strongest risk factor: genetics

# The Substance Use



## DSM-5 Substance Use Disorder

No disorder

O to 1 criterion

Mild disorder 2 to 3 criteria

Moderate disorder 4 to 5 criteria

Severe disorder
6 or more criteria

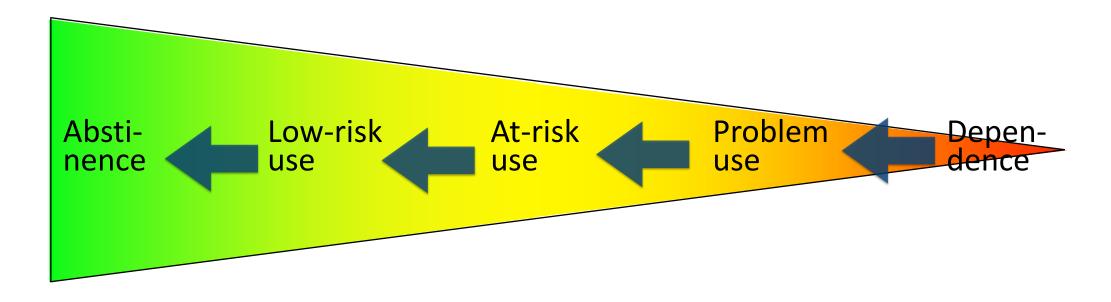
#### Diagnostic criteria

- Interference with important activities
- Missing work or school
- Use despite personal or social problems
- Continued use despite health problems
- Use in hazardous situations
- Unsuccessful attempts to quit
- Using more than intended
- Craving
- Increased substance-seeking behaviors
- Tolerance
- Withdrawal

Problem use

Dependence

## The Goal of SBIRT



Move each patient and client and entire patient and client populations to the left as far as possible

### Outline

- The substance use continuum
- Rationale for universal SBIRT
- Steps: screening, brief assessment, intervention/referral
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## The Rationale for Universal SBIRT

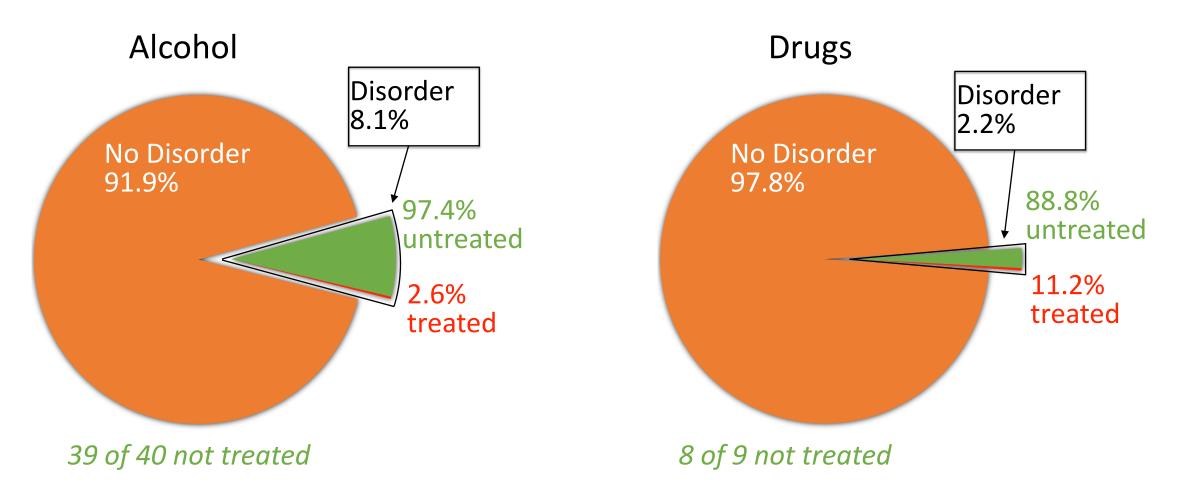
- At-risk use, problem use and dependence are common among
- The general population Population subgroups
- Adverse impacts of substance use are huge
- Health Social Economic
- SBIRT reduces risky and problem substance use and its adverse impacts

## At-risk or problem use or dependence

~30% of American adults

~40% of Wisconsin adults

# Prevalence of Substance Use Disorders and Receipt of Treatment in the Last Year – WI Adults



# Age, Gender, Race & Ethnicity

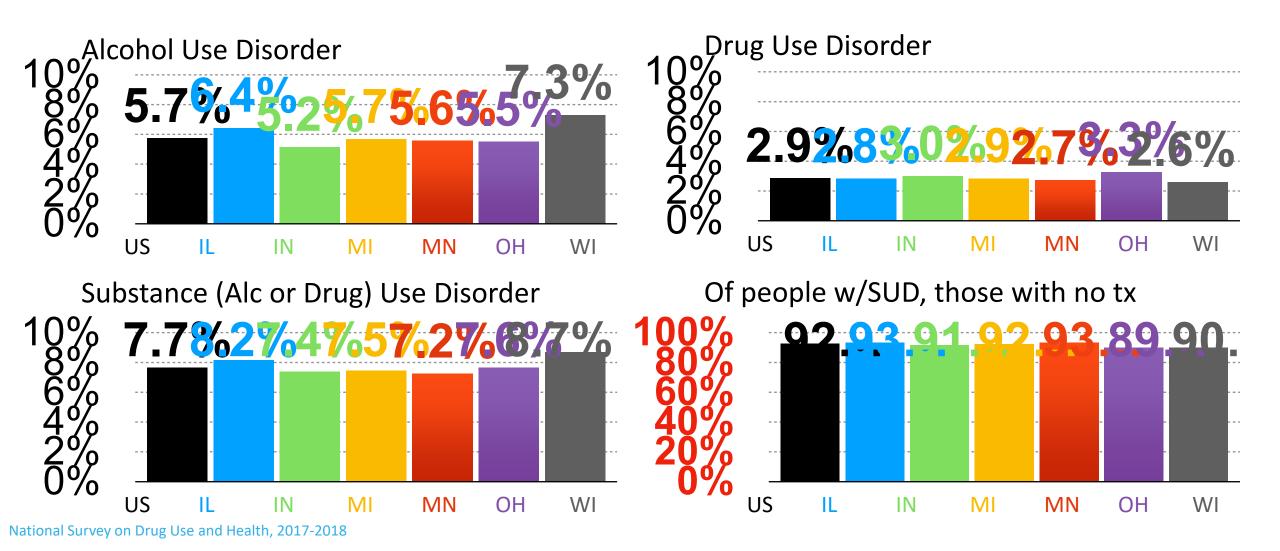
- Ages 12 to 17
- Binge drinking & drug use lowest among Asians
- Otherwise similar across gender, race and ethnicity groups
- Ages 18 to 25
- Binge drinking & drug use higher among males & young
- Whites: #1 in binge drinking, #2 in drug use
- Ages 26 and up
- Drug use is highest in multi-racial individuals
- Otherwise, binge drinking and drug use are similar

# Education & Employment

Age	Substance		With more education	With higher employment	
18 to 25	Alcohol		More at-risk drinking	More at-risk drinking	
18 (0 25	Drugs		Less drug use	Less drug use	
2C and up	Alcohol		Little relationship	Lowest among partially employed	
26 and up	Drugs		Slightly less drug use	Less drug use	

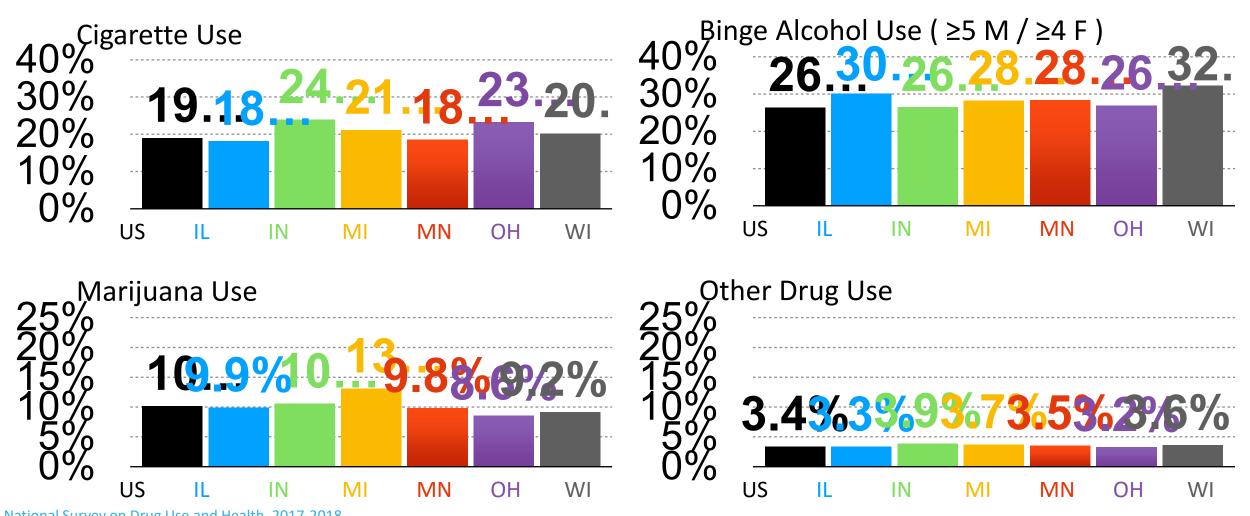
### Behavioral issues → worse outcomes + higher costs

#### Past-Year Prevalence - 2017 to 2018



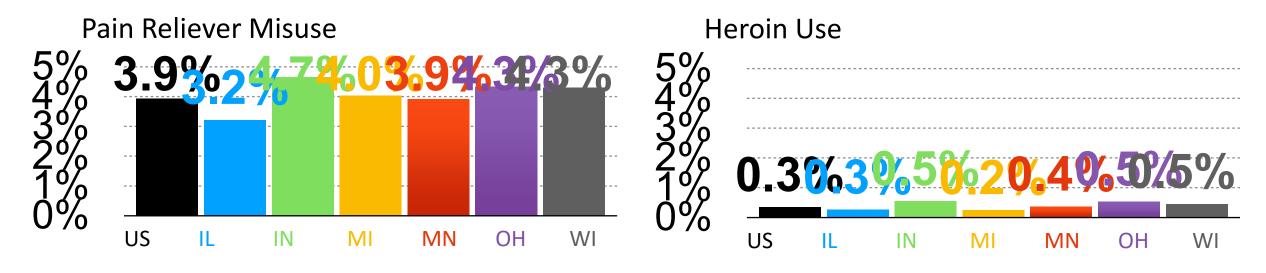
### Behavioral issues → worse outcomes + higher costs

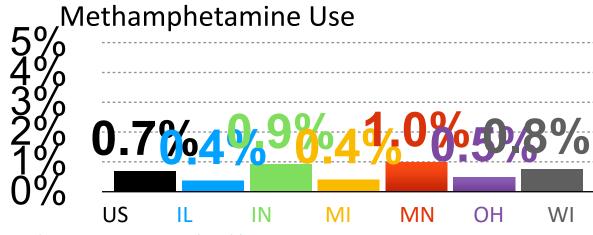
#### Past-Month Prevalence - 2017 to 2018



### Behavioral issues → worse outcomes + higher costs

#### Past-Year Prevalence - 2017 to 2018



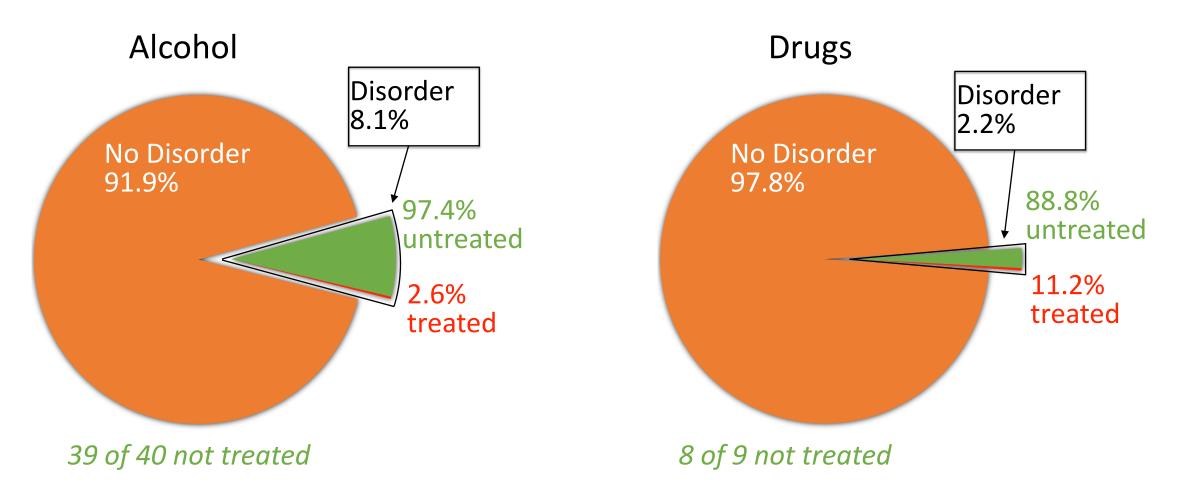


# Bottom Line

 At-risk drinking and drug use occur in all population subgroups

All patients should be screened

# Prevalence of Substance Use Disorders and Receipt of Treatment in the Last Year – WI Adults



# Impacts of Excessive Drinking in Wisconsin









1,529 deaths

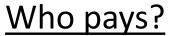
48,578 hospitalizations

5,751 crashes

60,221 arrests

# Economic Impacts of Excessive Drinking in Wisconsin

<u>Description</u>	<u>Amount</u>
Healthcare	\$750 million
Premature mortality	\$2.0 billion
Additional productivity loss	\$2.9 billion
Criminal justice	\$649 million
Vehicular crashes	\$418 million
Other	\$90 million
Total	\$6.8 billion



Federal, state & local gov't \$2.9 B - 43%

Others \$1.1B – 16%

Excessive drinkers and their families \$2.8 B - 41%

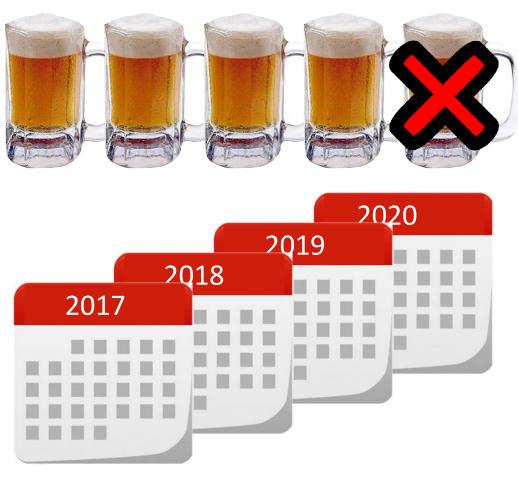
\$1,200 for every adult and child resident

19% of the FY 2016 State of Wisconsin budget

### Brief Alcohol Interventions

Effectiveness for At-risk and Problem Use –

- 10% to 30% declines
   in drinking
- With 1 to 3 booster sessions, declines in drinking last up to
   4 years

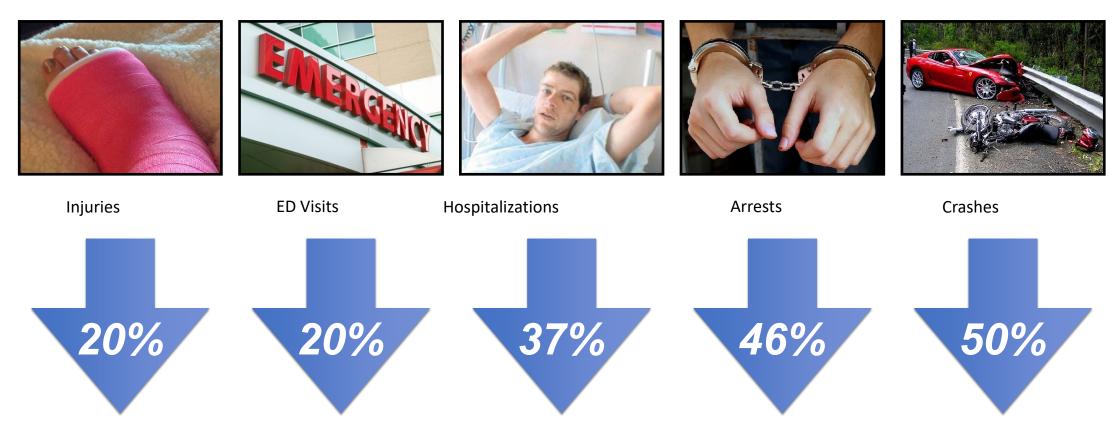


Fleming, Alc Clin Exp Res, 2002

### Brief Alcohol Interventions

Effectiveness for At-risk and Problem Use –

## In the year after interventions:



### Brief Alcohol Interventions

Cost Savings Per Patient –

	Project TrEAT	WASBIRT	
Patients and settings	Wisconsin primary care patients	Disabled Medicaid patients in [SEP] Washington State EDs	
Intervenors	Physicians and nurses	Alcohol/drug counselors	
Intervention cost	\$205	\$15	
Healthcare savings	\$523*	\$4,392*	
Other savings	\$629*	Not studied	

<sup>\*</sup>One-year savings per patient intervened upon

# Effectiveness of Referrals for Alcohol Treatment

Meta-analysis of 9 RCTs with 993 intervention/referral pts and 937 controls

- Studied alcohol interventions/referrals in healthcare settings
- Included patients not seeking help for their drinking
- Tracked receipt of treatment services after interventions/referrals
- Follow-up: 10 years for one study, 3 to 18 months for others

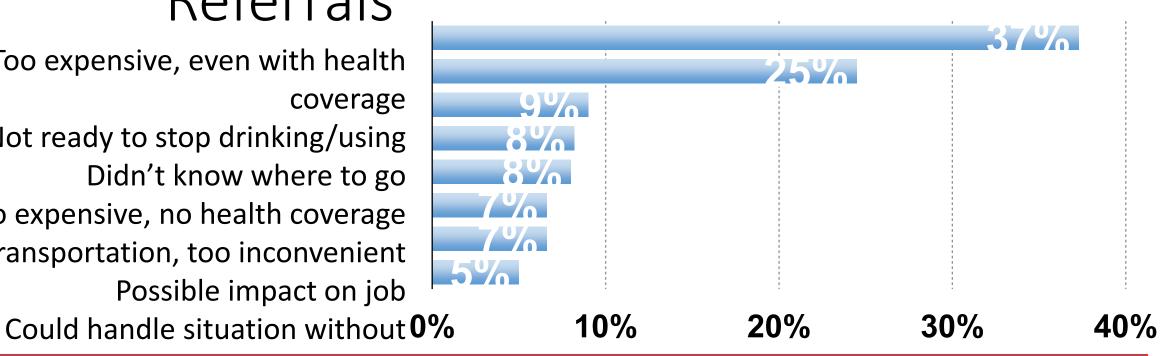
#### Results

 <u>Statistically insignificant increase</u> in receipt of treatment services with SBIRT: RR=1.08; 95% confidence interval: 0.92 - 1.28; p>.05)

WIPHL's experience: 10% of referrals resulted in at least one visit

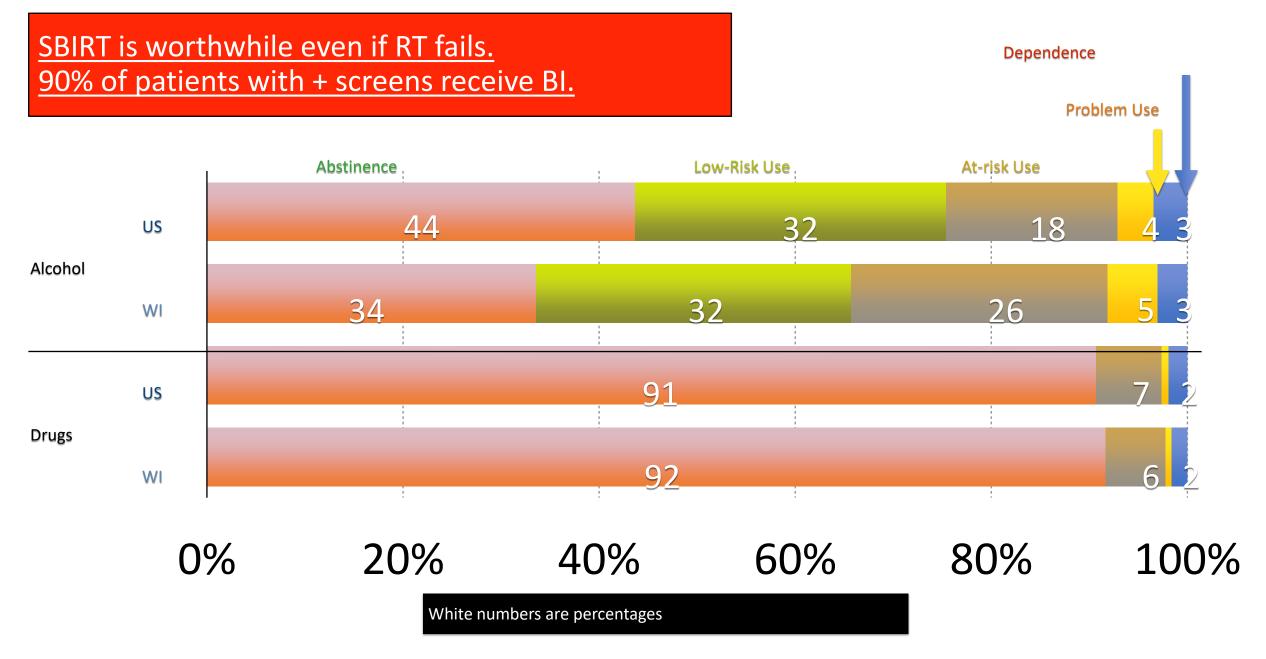
Barriers to Effective Referrals

Too expensive, even with health coverage Not ready to stop drinking/using Didn't know where to go Too expensive, no health coverage No transportation, too inconvenient Possible impact on job



Possible Solutions

- Offer outpatient treatment in general healthcare settings
- Offer outpatient treatment during days and evenings
- Offer treatment that requires no commitment to abstinence
- Enforce parity legislation reduce treatment costs for patients



National Survey on Drug Use and Health, State Report, 2012-2013

### Cost Savings of BSI

	Setting	Patients	Investment	Savings	Net Savings	Per Patient	Years	ROI
Smoking	_	Medicaid	\$183	\$571	\$388	who quit	1	2.1
Smoking	_	Medicaid, pregnant	\$201	\$1,273	\$1,072	who quit	1+	5.3
Alcohol	PC	All adults	\$205	\$523	\$318	intervened on	1	1.6
Alcohol & & Drugs	ED	Disabled Medicaid	\$15	\$4,392	\$4,377	intervened on	1	292
Alcoholsee & Drugs	PC	Medicaid	\$48[see]\$96	\$439[5]\$878	\$391[5][\$782	screened	1[sep]2	8.1[SEP]8.1
Depression	PC	≥60 yo	\$900	\$5,200	\$4,300	intervened on	4	4.8

### Cost Savings of BSI

Year 1 Savings Assumed for Projections

	Setting	Patients	Investment	Savings	Net Savings	Per Patient	Years	ROI
Smoking	_	Medicaid	\$183	\$571	\$388	who quit	1	2.1
Smoking	_	Medicaid, pregnant	\$201	\$1,273	\$1,072	who quit	1+	5.3
Alcohol	PC	All adults	\$205	\$523	\$318	intervened on	1	1.6
Alcohol & & Drugs	ED	Disabled Medicaid	\$15	\$4,392	\$4,377	intervened on	1	292
Alcohol & & Drugs	PC	Medicaid	\$48[see]\$96	\$300 \$439[\$]\$878	\$391[5]\$782	screened	1[SEP]2	8.15238.1
Depression	PC	≥60 yo	\$900	\$5,200 <b>\$1,300</b>	\$4,300	intervened on	4	4.8

#### Projected One-Year Cost Savings – 1,000 Primary Care Patients

	Unhealthy Alc/ Drug Use	Depression	Cigarette Smoking
Patients screened	1,000	1,000	1,000
Prevalence	20%	20%	18%
# patients intervened upon	200	200	180
Additional patients who quit (22% of those who receive interventions)	_	_	40
Year 1 healthcare cost savings per patient	\$300	\$1,300	\$571
Total 1-year healthcare savings	\$300,000	\$260,000	\$22,840
Total 1-year savings for all 1,000 patients	\$582,840		
Total 1-year savings per patient screened	\$583		

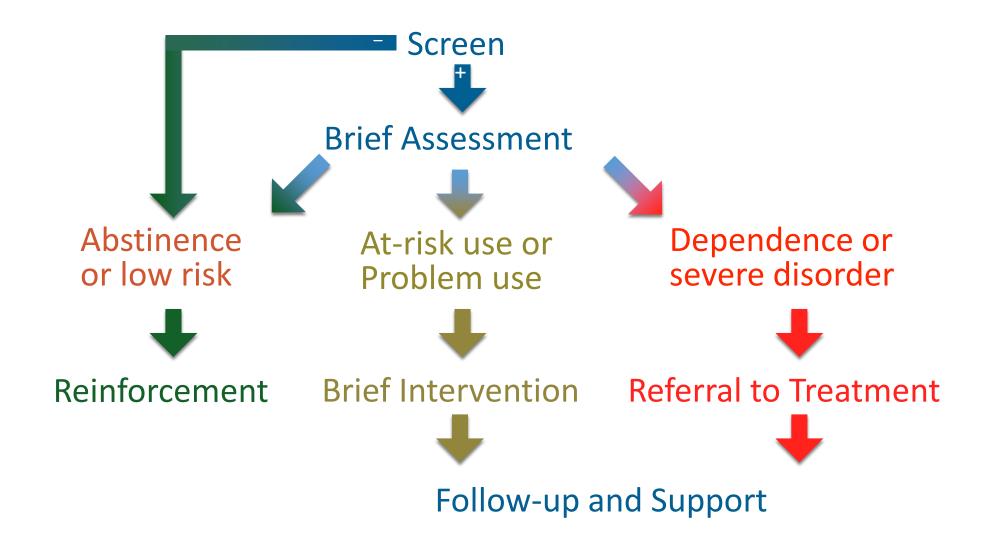
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# Definition of Screening

A rapid, proactive, systematic procedure applied to entire patient/client populations to identify individuals who may have a condition or may be at risk for a condition before obvious manifestations occur

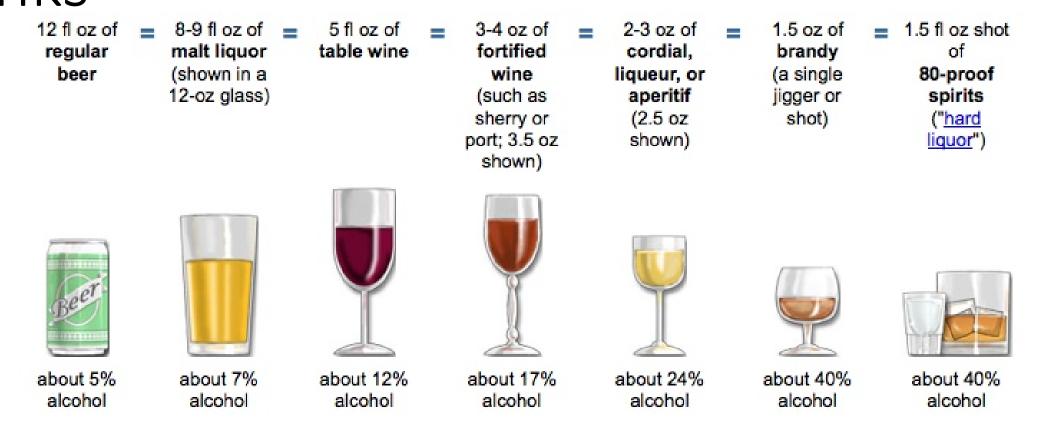
### **SBIRT Overview**



## What Conditions Warrant Screening?

- 1. The condition should be an important health problem
- 2. There should be a latent or early symptomatic stage
- 3. There should be a test that is easy to perform and interpret, acceptable, accurate, reliable, sensitive and specific
- 4. There should be an accepted treatment for the condition
- 5. Treatment should be more effective if started early
- 6. Diagnosis and treatment should be cost-effective

# For alcohol screens, define standard drinks



# Single Alcohol Screening Question

How many times in the past year have you had X or more drinks in a day?



$$X = 5$$



$$X = 4$$

- a. None
- b. 1

- c. 2 to 5
- d. 6 to 10

- d. 11 to 20
- e. more than 20

Positive response: Greater than none

### **AUDIT-C**

a. Never

b. Monthly or less

How often do you have a drink containing alcohol?

c. 2 to 4 times a month

d. 2 or 3 times a week

e. Daily or

almost daily

a. 1 or 2

b. 3 or 4

How many standard drinks do you have on a typical day when you drink?

c. 5 or 6

e. 10 or more

d. 7 to 9

a. Never

3.

b. Monthly or less

How often do you have X or more drinks on one occasion?

c. Monthly

e. Daily or

d. Weekly

almost daily

Men: X = 5

Women: X = 4

Add up all points: a = 0; b = 1; c = 2; d = 3; e = 4

Positive screen – men: ≥4 points women: ≥3 points

Exception: All points from item 3

## NIAAA Quantity-Frequency Questions

How many days a week do you typically have some alcohol? How many standard drinks do you have on a typical day of drinking? What's the largest number of

standard drinks you've had in an

occasion in the last 3 months?

Multiply together and compare to weekly low-risk limits:

- ≤ 14 for men
- ≤ 7 for women

Compare to episodic low-risk limits:

- ≤ 4 for men
- ≤ 3 for women

# Single Drug Screening Question

How many times in the past year have you used an illegal drug or used a prescription medication for non-medical reasons?

a. None

c. 2 to 5

d. 11 to 20

b. 1

d. 6 to 10

e. more than 20

Positive response: Greater than none

### Two-Item Conjoint Screen

(May be added to 2 single screening questions to identify more drug disorders)

- In the last year, have you ever drunk alcohol or used drugs more than you meant to?
   In the last year, have you felt you wanted or needed to cut down on your drinking or drug use?
  - Positive screen: Yes to either or both questions

    Does not identify <u>at-risk</u> alcohol or drug use

## Accuracy of Alcohol and Drug Screens

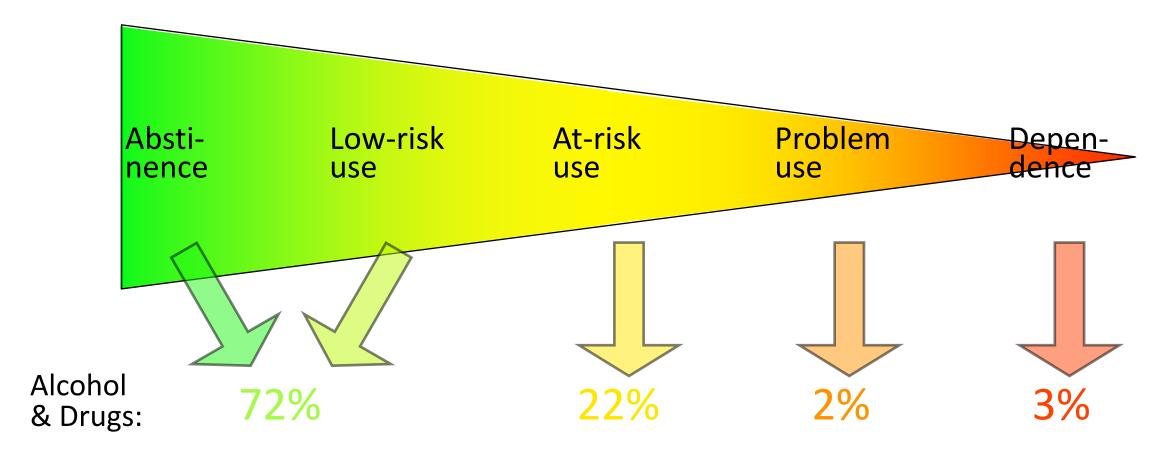
	Sensitivity	Specificity
	Of those with the condition, what proportion screen positive?	Of those <u>without</u> the condition, what proportion screen <u>negative</u> ?
	True positive vs. false negative	True negative vs. false positive
Single Alcohol Screening Question	82%	79%
AUDIT-C	<b>♂</b> : 79% <b>?</b> : 80%	<b>♂</b> : 56% <b>?</b> : 87%
NIAAA Quantity- Frequency Questions	83%	84%
Single Drug Screening Question	83%	94%
Two-Item Conjoint Screen (TICS)*	79%	77%

<sup>\*</sup>Screens for problem use and dependence, not risky use

## Interpreting Screen Results

- Screens identify most risky users, problem users and dependent individuals
- False-positives and false-negatives are not unusual
- Because of false-positives ...
  - Positive screens are not definite indicators of risky use, problem use or dependence
  - Screens merely indicate which asymptomatic individuals should undergo further assessment
- Because of false-negatives ...
  - Screens should not be administered to individuals with symptoms of disorders
  - Those individuals should undergo more in-depth assessment

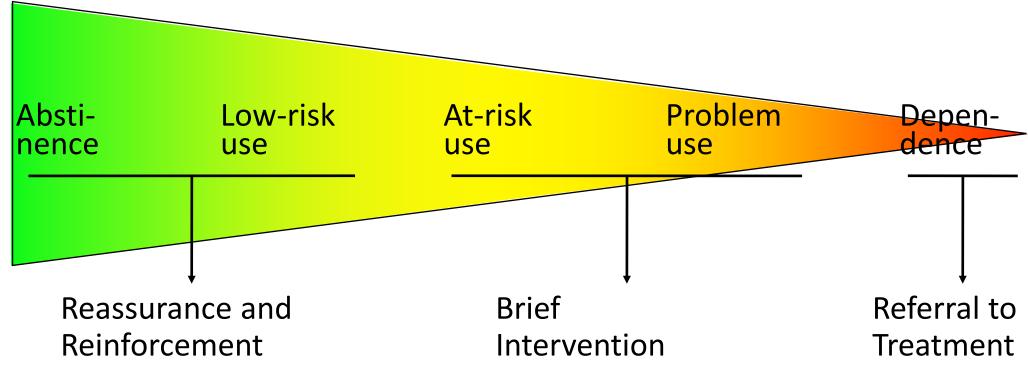
## WIPHL's Experience - Brief Assessment



#### Outline

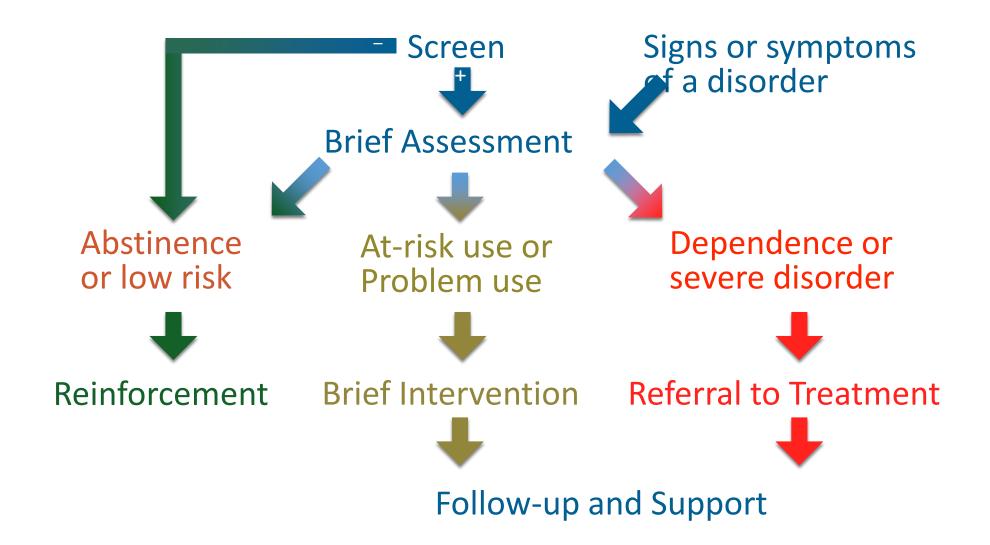
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## Definition of Brief Assessment



A structured process intended to categorize individuals with regard to their substance use

#### **SBIRT Overview**



## Brief Assessment Methods

**Clinical Interview** 

Substance use

Negative consequences

Dependence symptoms

Questionnaires

Substance use

Negative consequences

Dependence symptoms

### **AUDIT**

Alcohol Use Disorders Identification

Test

**DAST** 

**Drug Abuse Screening Test** 

#### **AUDIT**

- Developed and validated by the World Health Organization
- Validated across many countries and cultures
- 10 multiple choice items on alcohol
- Each item has 3 to 5 response choices with point values
- Add point values for interpretation

#### AUDIT - Items 1 to 3

<u>#</u>	Question	<u>Poin</u> 0	t Value	<u>es and</u> 2	R e s p o 3	<u>nses</u> 4
1	How often do you have a drink containing alcohol?	Never	Monthly or less	2 - 4 times a month	2 - 3 times a week	4 or more times a week
2	How many drinks containing alcohol do you have on a typical day when you are drinking?	1 or 2	3 or 4	5 or 6	7 to 9	10 or more
3	How often do you have more than X drinks on one occasion? (X = 4 for men, 3 for women)	Never	Less than monthly	Monthly	Weekly	Daily or almost daily

### AUDIT - Items 4 to 8

0	1	2	3	4
Never	Less than monthly	Monthly	Weekly	Daily or almost daily

4	How often during the last year have you found that you were not able to stop drinking once you had started?
5	How often during the last year have you failed to do what was normally expected of you because of drinking?
6	How often during the last year have you needed a drink first thing in the morning to get yourself going after a heavy drinking session?
7	How often during the last year have you had a feeling of guilt or remorse after drinking?
8	How often during the last year have you been unable to remember what happened the night before because of your drinking?

#### AUDIT - Items 9 and 10

0	2	4
No	Yes, but not in the last year	Yes, during the last year

9	Have you or someone else been injured because of your drinking?
	Has a relative, friend, doctor, or other health care worker been concerned about your drinking or suggested you cut down?

## **AUDIT - Overview of Items**

#	Focus	Quantity and Frequency	Negative Consequences	Dependence symptoms
1	Frequency of alcohol consumption	✓		
2	Usual consumption on drinking days	<b>√</b>		
3	Maximal consumption	<b>√</b>		
4	Unable to stop drinking once started			✓
5	Unmet expectations		<b>√</b>	
6	Needed a drink in the morning			✓
7	Guilt or remorse after drinking		<b>√</b>	
8	Blackouts		<b>√</b>	
9	Injury		<b>√</b>	
1 0	Concern about drinking by others		✓	

## **AUDIT - Scoring**

Risk	Total Score		Managamant
Category	Females	Males	Management
Low-risk use	0 to 6	0 to 7	Education, affirmation
At-risk use	7 to 15	8 to 15	Brief intervention
Problem use	16 to 19		Brief intervention + F/U*
Likely dependent	20 to 40		Referral

#### **DAST**

- 10 questions on drug use in the past 12 months
- All questions are yes-no
- Each question scores 0 points or 1 point
- Validated mainly on treatment populations, not general healthcare, mental healthcare or social services patients and clients
- Some items may improve with rewording

#### DAST - Items 1 to 5

In the past 12 months		Points	
111 (1	in the past 12 months		No
1	Have you used drugs other than those required for medical reasons?	1	0
2	Do you abuse (use) more than one drug at a time?	1	0
3	Are you always able to stop using drugs when you want to?	0	1
4	Have you had "blackouts" or "flashbacks" as a result of drug use?	1	0
5	Do you ever feel bad or guilty about your drug use?	1	0

## DAST - Items 6 to 10

15 +k	In the past 12 months		
In u			No
6	Has your spouse or parents ever complained about your involvement with drugs?	1	0
7	Have you neglected your family because of your use of drugs?	1	0
8	Have you engaged in illegal activities in order to obtain drugs (other than possession)?	1	0
9	Have you experienced withdrawal symptoms (felt sick) when you stopped taking drugs?	1	0
10	Have you had medical problems as a result of your drug use (eg, memory loss, hepatitis, convulsions, bleeding, etc)?	1	0

### DAST - Overview of Items

#	Focus	Quantity and Frequency	Negative Consequences	Dependence symptoms
1	Drug use	✓		
2	Use of more than one drug at a time	<b>√</b>		
3	Ability to stop using			✓
4	Blackouts and flashbacks		<b>√</b>	
5	Feeling bad or guilty		<b>√</b>	
6	Complaints by others		<b>√</b>	
7	Neglect of family		<b>√</b>	
8	Illegal activity		<b>√</b>	
9	Withdrawal symptoms			✓
1 0	Medical complications		✓	

## DAST - Scoring

Degree of Problems	Score	Management
None	0	Education, affirmation
Low	1	Education, affirmation
Low	2	Brief intervention
Moderate	3 to 5	Brief intervention + F/U*
Substantial	6 to 8	Intervention or referral
Severe	9 to 10	Referral

#### **AUDIT & DAST**

#### **Advantages**

- AUDIT is well-validated for patients and clients across many countries and cultures
- DAST can be skipped if there is no drug use in the prior year
- Set total of 20 items

#### **Drawbacks**

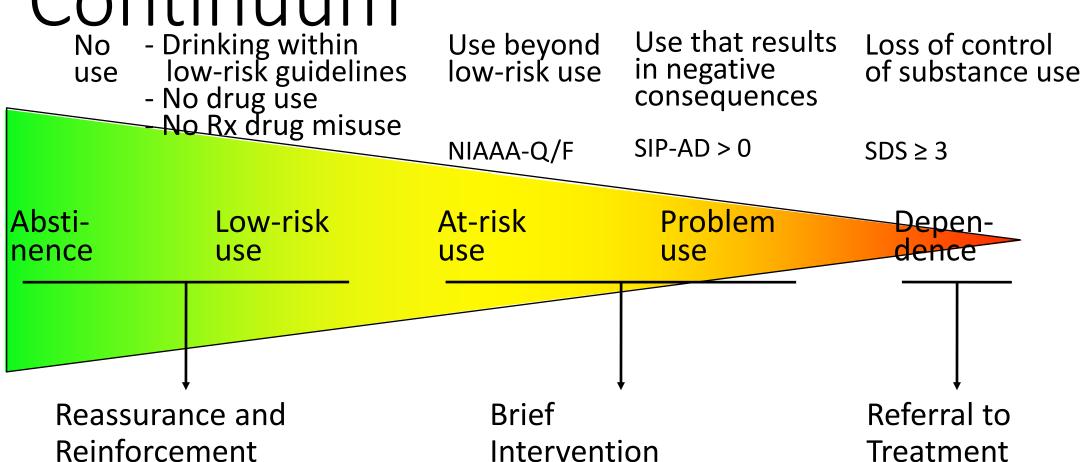
- AUDIT results do not always indicate adherence to lowrisk drinking limits
- DAST is not well validated for general healthcare, mental health and social services populations
- Single-number feedback carries no implicit meaning for patients and clients

## NIAAA-Q/F NIAAA Quantity and Frequency Questions

SIP-AD
Short Index of Problems - Alcohol & Drugs

SDS Severity of Dependence Scale

# The Substance Use Continuum



## NIAAA Quantity-Frequency Questions

- 1. How many days a week do you typically have some alcohol?
- 2. How many standard drinks do you have on a typical day of drinking?
- 3. What's the largest number of standard drinks you've had in an occasion in the last 3 months?



Multiply together and compare to weekly low-risk limits:

- ≤ 14 for men
- ≤ 7 for women

Compare to episodic low-risk limits:

- ≤ 4 for men
- ≤ 3 for women

#### SIP-AD

- Developed at the University of New Mexico
- 15 multiple choice questions on negative consequences
- All questions use same multiple-choice frequency scale
- Add up point values to indicate severity of consequences
- Questions apply to most life circumstances

## Other Questionnaires

- TWEAK for pregnant women
- CRAFFT for adolescents
- CAGE
  - longer and less accurate than newer screens
  - should no longer be used

#### Outline

- The substance use continuum
- Rationale for universal SBIRT
- Steps: screening, brief assessment, intervention/referral
- Selected principles of motivational interviewing
- The first SBIRT interaction: description, demo, practice
- Follow-up
- Implementation
- Pharmacotherapy

## Intervention and Referral

Goal is NOT acceptance of a diagnosis or label

Goal is behavior change

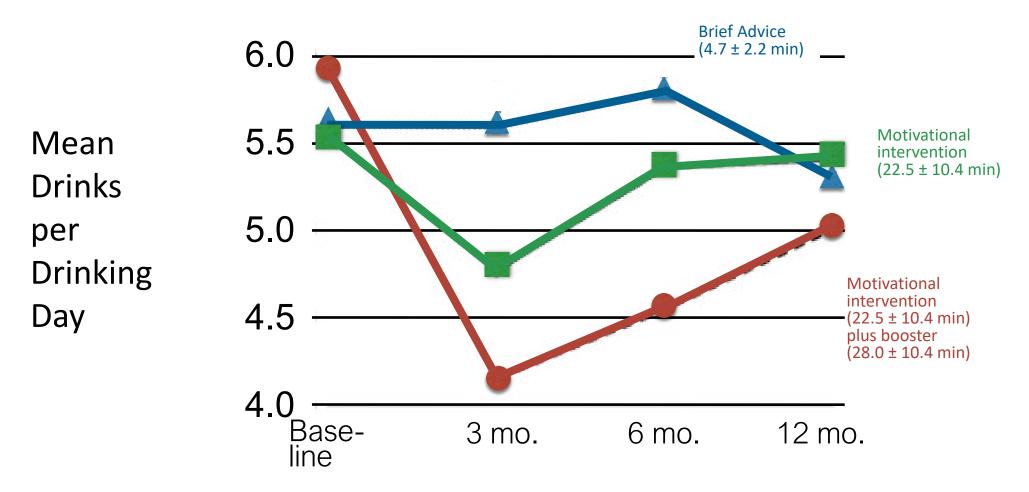
- Reduction or cessation of substance use
- Accessing another resource
  - Assessment by a specialist
  - Specialty-based treatment
  - Mutual help group

## Intervention and Referral

#### Methods

- More provider-centered
- Feedback
   Recommendation
  - EducationNegotiation
- More patient-centered
  - Motivational interviewing (MI)

## SBIRT: MI vs Brief Advice



#### Outline

- The substance use continuum
- Rationale for universal SBIRT
- Steps: screening, brief assessment, intervention/referral
- Selected principles of motivational interviewing (Communication style, OARS, Spirit, EARS and ECT)
- The first SBIRT interaction: description, demo, practice
- Follow-up
- Implementation
- Pharmacotherapy

#### Evidence for MI

- 1200+ studies
- 200+ RCT
- MI improved treatment retention, adherence,
   and outcomes across a wide range of behaviors
- Generalizes well across cultures

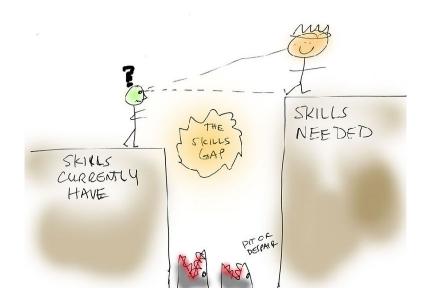
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- Implementation
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- Training evaluation and sign-out

## Alcohol SBI Delivery by Healthcare Professionals

In 2011 (CDC Behavioral Risk Factor Surveillance System):	
Proportion of American adults who discussed their drinking with a healthcare professional	16%
In 2013 (SAMHSA National Survey on Drug Use and Health):	
Proportion of American adults who were asked about their drinking	72%
Proportion of <u>at-risk drinkers</u> who received any intervention, including referral	5%
Proportion of <u>problem drinkers</u> who received any intervention, including referral	10%
Proportion of <u>dependent individuals</u> who received any intervention, including referral	26%

## Barriers to Systematic BSI



- Motivational interviewing
- Behavior change planning
- Collaborative care



Inadequate financial incentive

## Fee-for-Service Reimbursement

Payers	Code	Description	Reimbursement
WI Medicaid	H0049	Brief assessment	\$35.35
WI Medicaid	H0050	15 min intervention	\$20.23
Medicare	G0442	15 to 29 minute assessment and/or intervention	\$17.33
Medicare	G0443	30+ minute assessment and/or intervention	\$25.14
Commercial	99408	15 to 29 minute assessment and/or intervention	\$33.41
Commercial	99409	30+ minute assessment and/or intervention	\$65.51

ACOs and MIPS: SBIRT will improve performance

## Barriers to Systematic BSI







- Motivational interviewing
- Behavior change planning
- Collaborative care

Inadequate financial incentive

Lack of time

## An example of SBIRT- WIPHL workflow

#### PRIMARY CASE SETTINGS



Patient completes screen while waiting



MA reviews screen



Coach sees patient at that visit

#### INPATIENT UNITS AND EMERGENCY DEPARTMENTS

Coach introduces self and conducts screening and additional services

## Quality Improvement

- An iterative, data-driven approach to the analysis of performance and systematic efforts to improve it
- Steps
  - Establish metrics and targets to define success

#### Successful SBIRT

- Maximal numbers of individuals screened
- Maximal numbers of individuals with positive screens completing brief assessment
- Maximal numbers of individuals with positive brief assessments receiving intervention or referral
- Reduction in substance use shown possible in prior research

## Recommended SBIRT Quality Metrics

	Metric	Metric Calculation	
A	Screen completion	Number who completed screen Eligible adults	
В	Brief assessment completion	Number who completed brief assessment Number with a positive screen	
С	Intervention or referral delivery	Number who received brief intervention or referral  Number with a positive brief assessment	
D	Substance use reduction	n Actual reduction in use by intervention or referral recipients  Expected reduction in use by intervention or referral recipients	

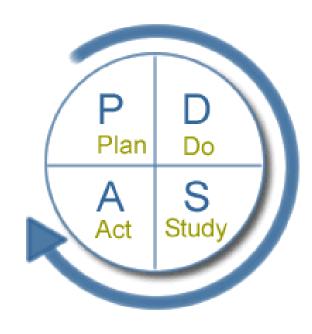
80% on A, B, and C is a good initial goal. Ultimate goal is 100%

## Possible Behavioral Outcome Variables and Targets

	<u>Variable</u>	<u>Target</u>
Alcohol	Days of risky drinking in the prior 4 weeks	20% reduction
Drugs	Days of drug use in the prior 4 weeks	15% reduction

## Quality Improvement

- A formal, iterative approach to the analysis of performance and systematic efforts to improve it
- Steps
  - Establish metrics and targets
  - Plan design service delivery & data collection
  - Do implement the plan
  - Study analyze the data
  - Act consider options for improvement
- Repeat PDSA cycles until targets are met



#### Outline

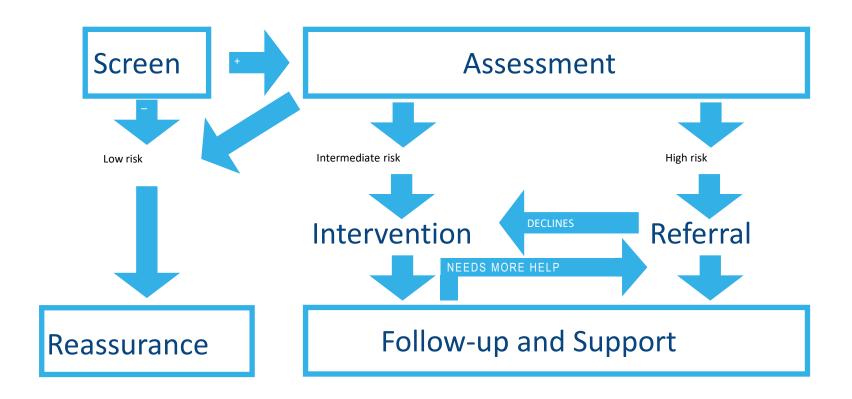
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## Referral for SUDs is Not Enough

- Referral is usually ineffective THEN WHAT???
- Effective, FDA-approved pharmacotherapy for alcohol and opioid use disorders is vastly under-prescribed
  - For alcohol: disulfiram (Antabuse®), acamprosate (Campral®), and naltrexone (Vivitrol®)
  - For opioids: naltrexone (Vivitrol®), buprenorphine (Suboxone®)
- Primary care treatment of SUDs
  - Pharmacotherapy by PCP
  - Motivational Interviewing and Behavior Change Planning by Health Coach
  - Offer on-site counseling: 1-on-1 or group

#### Referral for SUDs is Not Enough

 Referral is more effective when patients who are motivated to change find that their initial self-management efforts are insufficient



## The New York Times

HEALTH

#### Drugs to Aid Alcoholics See Little Use, Study Finds

By ANAHAD O'CONNOR MAY 13, 2014

Two medications could help tens of thousands of alcoholics quit drinking, yet the drugs are rarely prescribed to patients, researchers reported on Tuesday.

The medications, <u>naltrexone and acamprosate</u>, reduce cravings for alcohol by fine-tuning the brain's chemical reward system. They have been approved for treating alcoholism for over a decade. But questions about their efficacy and a lack of awareness among doctors have By comparison, large studies of widely used drugs, like the cholesterollowering statins, have found that 25 to more than 100 people need treatment to prevent one cardiovascular event.

According to federal data, roughly 18 million Americans have an alcohol abuse disorder. Excessive drinking kills about 88,000 people a year.

"These drugs are really underused quite a bit, and our findings show that they can help thousands and thousands of people," said Dr. Daniel E. Jonas,

# FDA-Approved for Alcohol Dependence

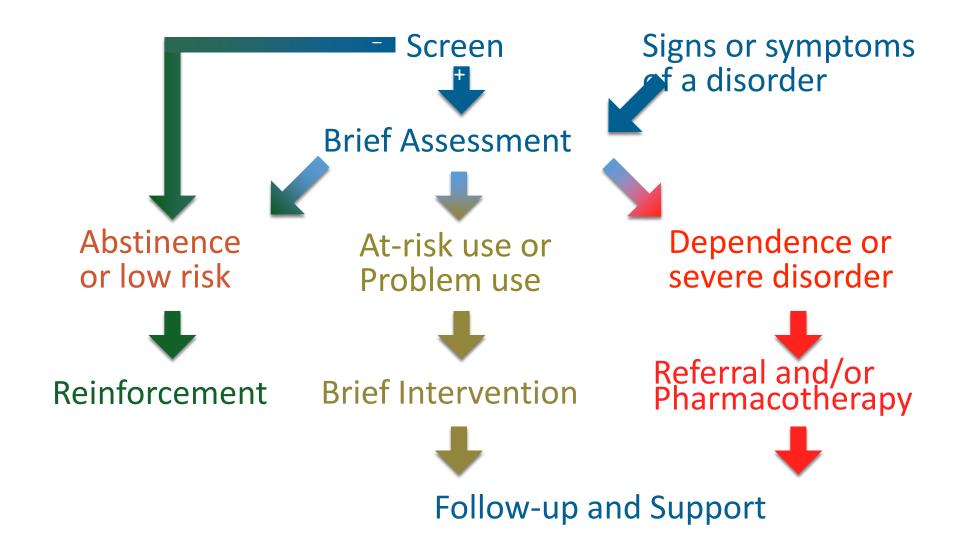
- Disulfiram (Antabuse®) aversive agent
- Acamprosate (Campral®) alleviates long-term, subacute withdrawal
- Naltrexone (Revia®, Vivitrol®) reduces urges and cravings

No addiction potential • No euphoria • No street value

# FDA-Approved for Opioid Dependence

- Naltrexone opioid blocker no restrictions on prescribing
- Methadone restricted to federally licensed clinics for opioid dependence
- Buprenorphine
  - Physicians may prescribe for up to 30 patients after 8 hours of training
  - Physicians can apply to increase their limit to 275 patients
  - NPs and PAs may prescribe for 30 patients after 24 hours of training

#### **SBIRT Overview**



#### Summary

- Large prevalence & impacts of risky use, problem use & dependence
- Brief alcohol interventions are clearly effective
- Brief drug interventions are effective for many patients
- Referral to treatment has low effectiveness, so offer pharmacotherapy and behavioral support in general healthcare settings
- To provide universal SBIRT and similar services for other important behavioral issues, expand healthcare teams