# Social Determinants of Health in Substance Use Disorders

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No disclosures



# SDOH - the "old" vs. the "new"



Old model -

Health is defined as the absence of physiologic abnormality



New model -

Health is defined as overall well-being



#### **Social Determinants of Health - Definition**

"Social determinants of health (SDOH) are the conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks."

- US Department of Health and Human Services, Healthy People 2030

https://health.gov/healthypeople/priority-areas/social-determinants-health

#### **Social Determinants of Health - Definition**

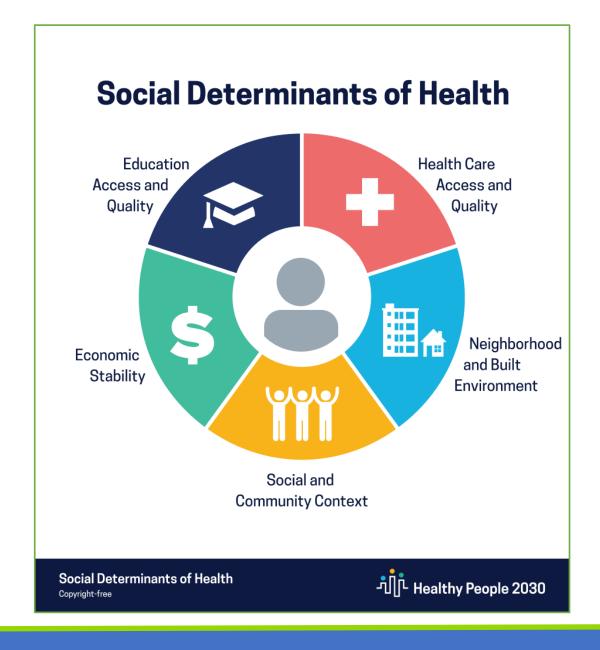
"The social determinants of health (SDH) are the non-medical factors that influence health outcomes. They are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life. These forces and systems include economic policies and systems, development agendas, social norms, social policies and political systems."

- World Health Organization -

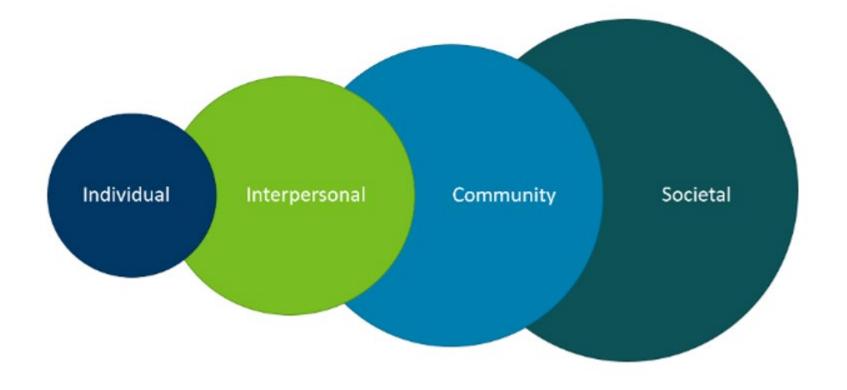
https://www.who.int/health-topics/social-determinants-of-health



# Social Determinants of Health - 5 Domains

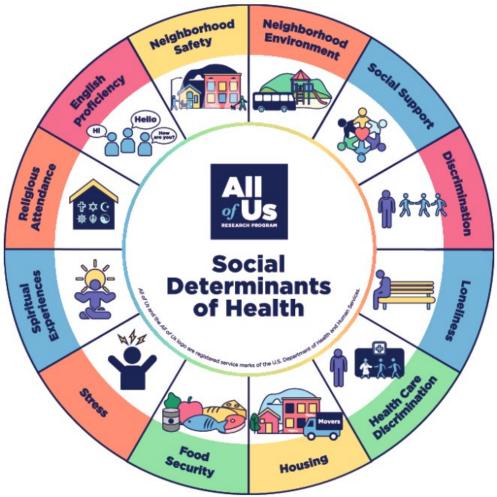


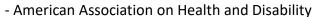






# What is SDOH?







#### Social Determinants of Health

Economic Stability	Neighborhood and Physical Environment	Education	Food	Community and Social Context	Health Care System
Employment Income Expenses Debt Medical bills Support	Housing Transportation Safety Parks Playgrounds Walkability Zip code / geography	Literacy Language Early childhood education Vocational training Higher education	Hunger Access to healthy options	Social integration Support systems Community engagement Discrimination Stress	Health coverage  Provider availability  Provider linguistic and cultural competency  Quality of care

#### **Health Outcomes**

Mortality, Morbidity, Life Expectancy, Health Care Expenditures, Health Status, Functional Limitations





# **Individual SDOH factors**

- Debt burden
- Unreliable or nonexistent transportation
- Involvement in legal system
- Intimate partner altercations, violence
- Childcare responsibilities
- Substance use disorders self or family
- Adverse childhood experiences
- Past trauma, PTSD
- Lack of education, language and numerical literacy
- Self-recrimination, poor self-image
- Loneliness



### Patient global impression of improvement - (PGI-I)

- After a specified start date to end-point or specified period of enrollment in MOUD or MOUD-PSI: 'compared to how you were before you started treatment, how are your opioid problems now?'
- Response options (scoring): very much better (7); much better (6); a little better (5); no change (4); a little worse (3); much worse (2); very much worse (1)

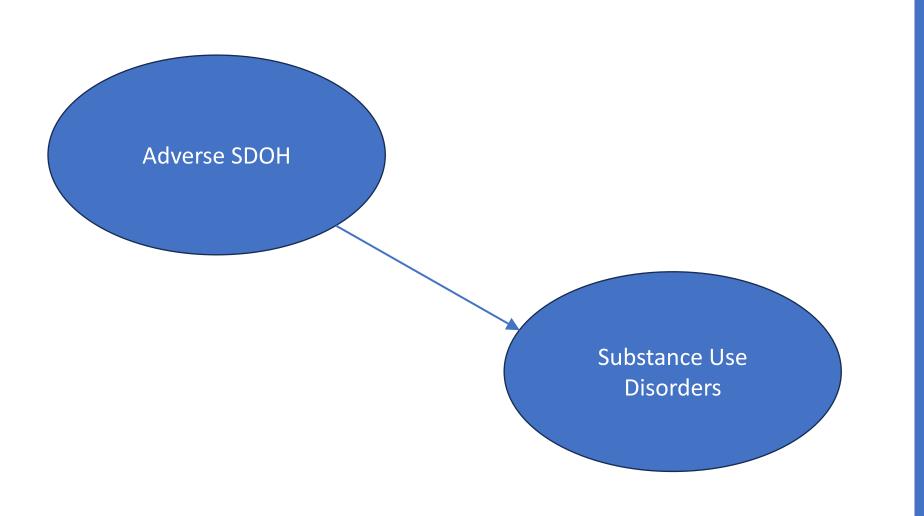
Karnik NS, Marsden J, McCluskey C, et al. The opioid use disorder core outcomes set (OUD-COS) for treatment research: findings from a Delphi consensus study. Addiction. 2022 Sep;117(9):2438-2447. doi: 10.1111/add.15875. Epub 2022 Apr 25. PMID: 35293064; PMCID: PMC9543602.



# How does adverse SDOH affect SUDs?



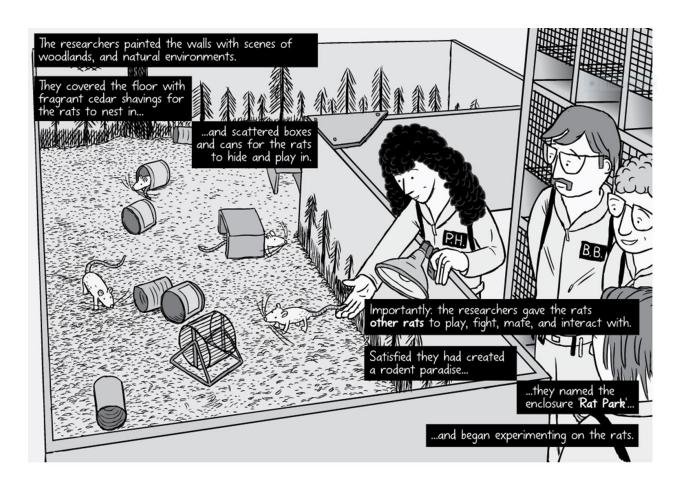
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# "Rat Park"

- In 1970-80s, Bruce Alexander (Vancouver) developed experiments called "Rat Park."
- Rats were placed in a more natural environment- scenic, comfortable, and sociable.
- Rats had access to two levers:
  - Morphine solution
  - Inert solution



Raz S, Behav Pharmacol 2010 Alexander BK, Pharmacol Biochem Behav 1981 Felitti et al, Am J Prev Med 1998 Mate' 2020



# Rat Park Findings

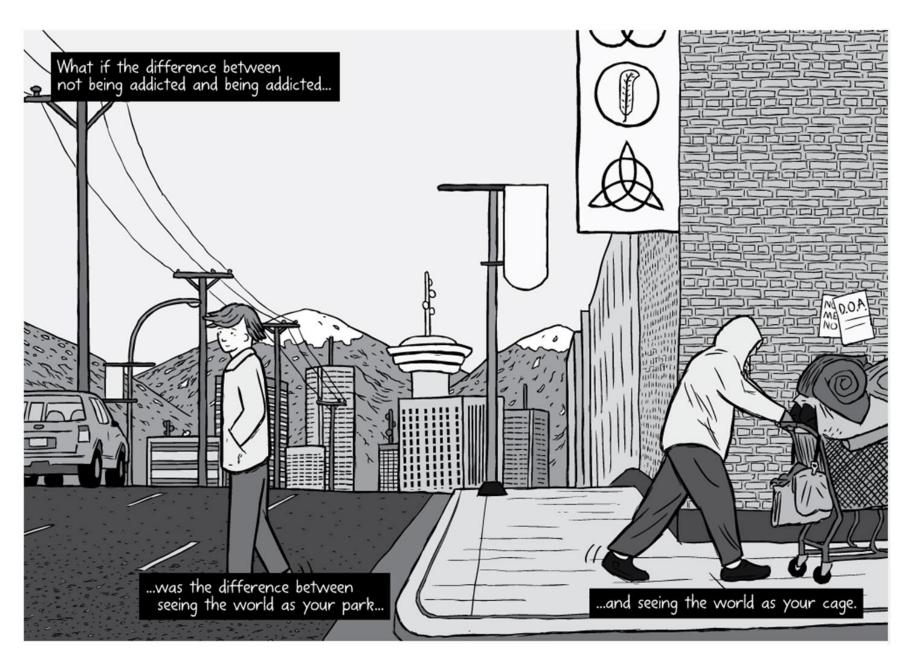
- Compared to caged rats, rats in rat park were less attracted to morphine.
- Researchers attempted various alterations:
  - Making the morphine solution more sweet
  - Forcing rats to develop physical dependence to morphine prior to rat park
- Caged rats consumed up to 20 times more morphine than those living in rat park.
- "Nothing we tried instilled a strong appetite for morphine or produced anything that looked like addiction in rats that were housed in a reasonably normal environment." – Dr. Alexander



# Rat Park Lessons

- What are the human correlates of these findings?
  - *Emotional isolation, powerlessness*, and *stress* promote the development of addiction.
  - Experience of *abuse and neglect* predisposes to addiction (ACEs increase risk for development of addiction).
  - The converse is also true: e.g., Vietnam veterans had low rates of addiction post return despite heavy use of heroin in Vietnam.
  - Social support helps recovery.







# Adverse Childhood Events (ACE)

#### Abuse

- emotional
  - sexual
    - physical

# Neglect

- physical
  - emotional

# Household Dysfunction

- intimate partner violence
- incarceration
- parental separation/divorce
- household substance use
- household mental illness



# Out of 100 people -

33% Report No ACEs

#### With O ACEs

1 in 16 who smoke

1 in 69 with alcohol use disorder

1 in 480 inject drugs

1 in 14 has heart disease

1 in 96 attempts suicide

51% Report 1-3 ACEs

#### With 3 ACEs

1 in 9 who smoke

1 in 9 with alcohol use disorder

1 in 43 inject drugs

1 in 7 has heart disease

1 in 10 attempts suicide

16% Report 4-10 ACEs

With 7+ ACEs

1 in 6 who smoke

1 in 6 with alcohol use disorder

1 in 30 inject drugs

1 in 6 has heart disease

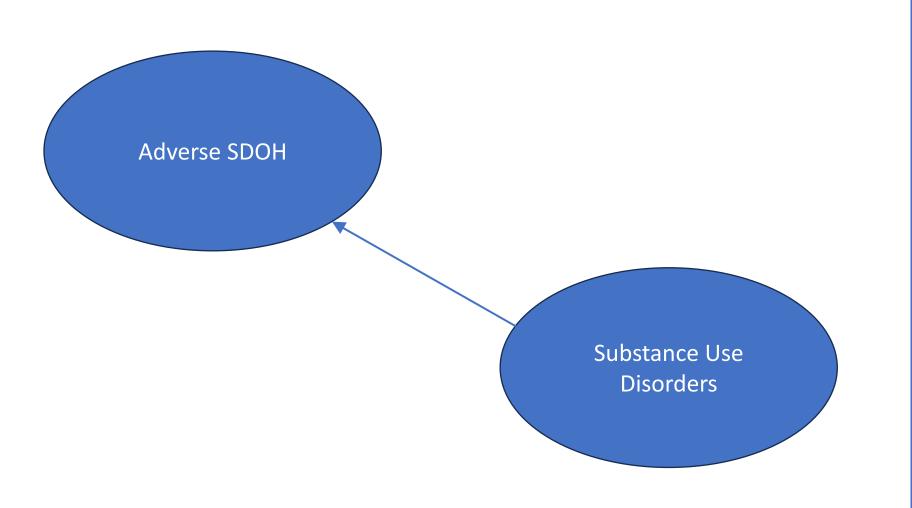
1 in 5 attempts suicide



# How do SUDs affect SDOH?



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# **Unstable housing and SUD**

30-50% of people who are homeless have mental health or substance use disorders

Having an SUD significantly increases the risk of becoming homeless

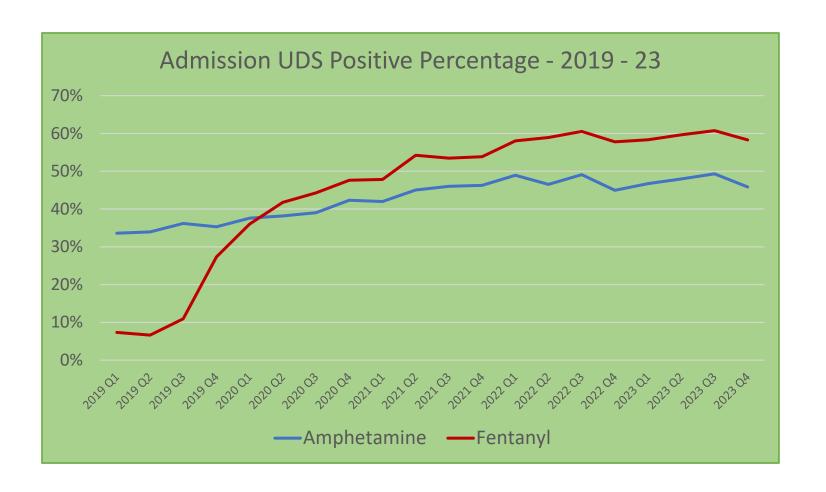
Those who are homeless have an increased risk of overdose by 6-9 times

Those who are homeless are less likely to seek out SUD treatment services

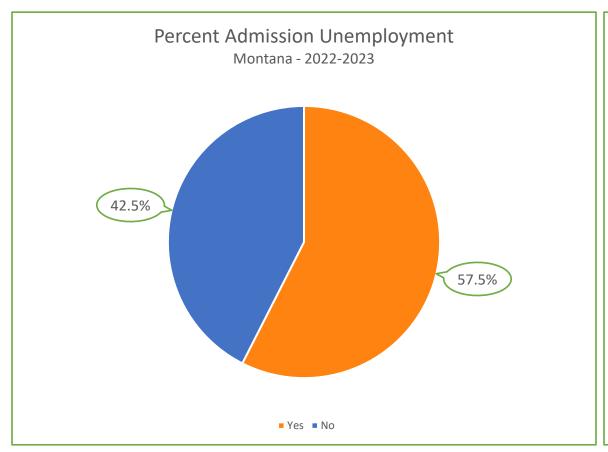
Those who are homeless are more likely to drop out of SUD treatment

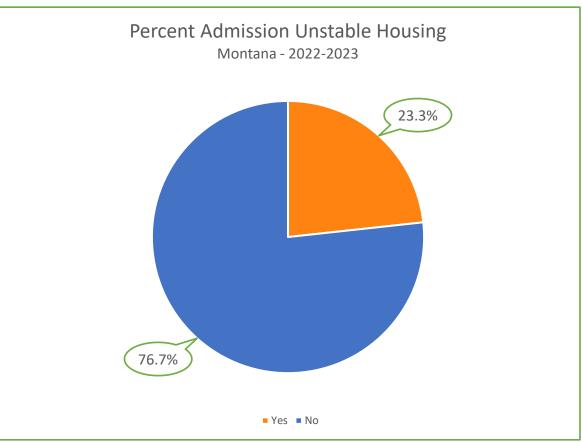


#### **Admission UDS Positive Percentage - Montana**

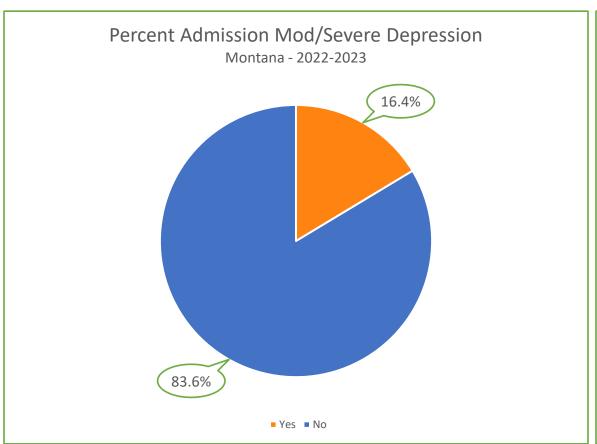


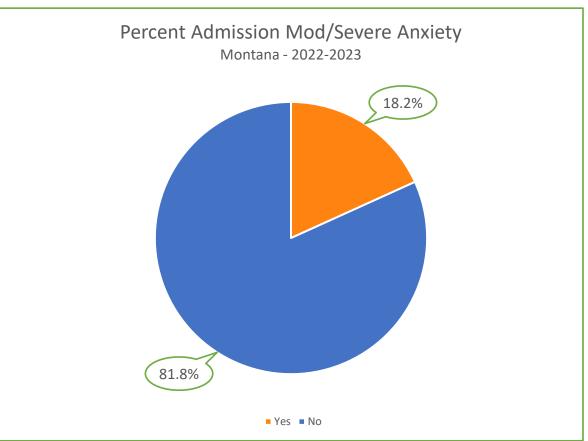
# **Admission Unemployment and Homelessness - Montana**





# **Admission Moderate/Severe Depression - Montana**



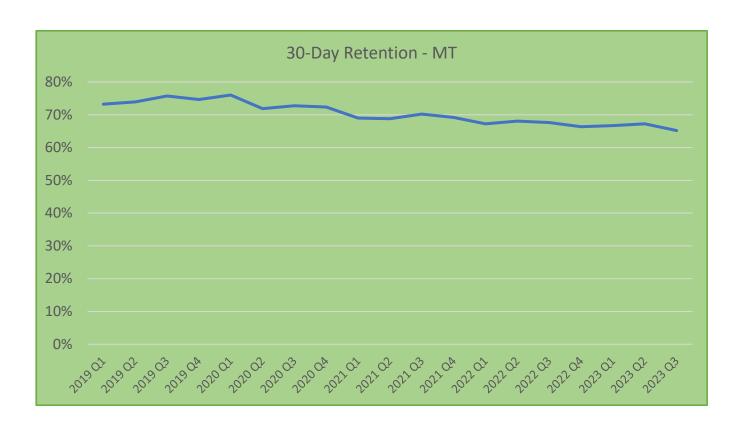


Composite Social Stressor Score - All Admission/Readmissions



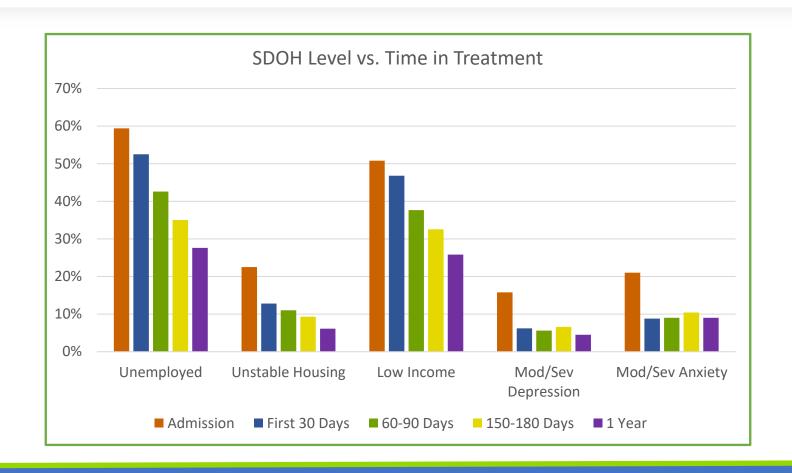


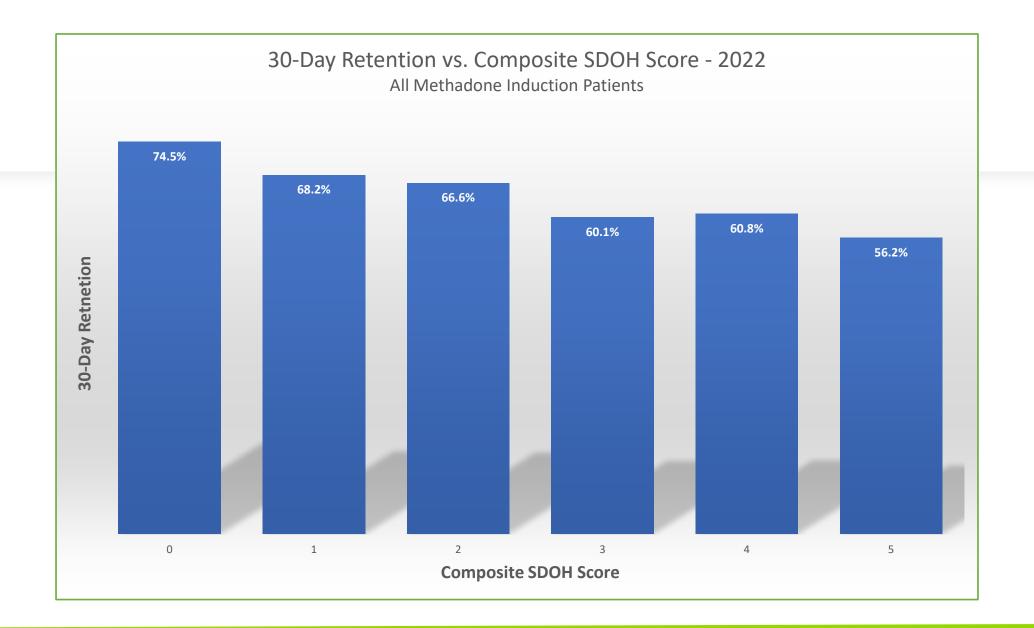
# 30-Day Retention by Quarter - Montana





# Time in treatment vs. SDOH





# What to do about SDOH?

Increasing access to harm reduction measures

- Naloxone rescue kits
- Low barrier shelters
- Sterile supply programs
- Overdose prevention centers

Low barrier MOUD

- Integrated Primary Care
- Pharmacy based monitoring

Acceptance of alternative outcomes other than abstinence

- Decreased use
- Avoidance of risky routes of administration
- Improved SDOH



#### What does low barrier MOUD look like?

Counseling offered but not required

Tolerance for missed appointments

No requirement for negative UDS results

Use of telemed and phone visits

Understanding diversion and balancing risks of diversion vs. benefits of MOUD

Culturally sensitive, trauma-informed staff and providers Treating all clients with respect – reducing stigma and discrimination

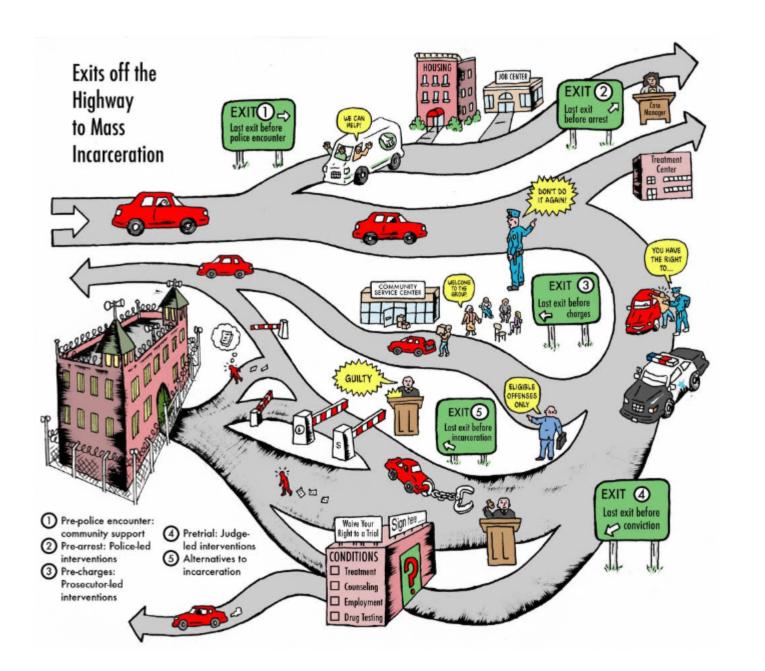
Using MI – accepting patients' goals

Shared Decision-Making Model

# SDOH and the Criminal Justice System

- Allowing MOUD in jails and prisons
- Evaluating inmates at initial incarceration and before release
- Providing evidence-based treatment within the CJS
- Providing naloxone in jails and prisons
- Redirection programs options for treatment vs. incarceration
- Helping inmates with SDOH planning prior to release
  - Housing
  - Employment
  - Social support







## **How to assess SDOH**



The Accountable Health Communities Health-Related Social Needs Screening Tool - <a href="https://www.cms.gov/priorities/innovation/files/worksheets/ahcm-screeningtool.pdf">https://www.cms.gov/priorities/innovation/files/worksheets/ahcm-screeningtool.pdf</a> - (26 Questions)



PRAPARE - <a href="https://prapare.org/wp-content/uploads/2021/10/PRAPARE-English.pdf">https://prapare.org/wp-content/uploads/2021/10/PRAPARE-English.pdf</a> - (21 Questions)

Make it a routine to ask about basic SDOH issues at every encounter!





#### PRAPARE®: Protocol for Responding to and Assessing Patient Assets. Risks. and Experiences Paper Version of PRAPARE® for Implementation as of September 2, 2016

Pe	rsonal Cha	ara	cte	risti	cs										
1.	Are you Hispanic or Latino?						8.	8. Are you worried about losing your housing?							
	Yes		No	)		I choose not to answer thi		Yes		No		I choose n	ot to	answer this	
						question	IJL					question			
2.	2. Which race(s) are you? Check all that apply						9.	9. What address do you live at? Street:							
	Asian	ian Native Hawaiian				7	City, Stat	e, Z	ip co	de:					
	Pacific Isla			ck/African American	11										
	White			П	American Indian/Alaskan Native			Money & Resources							
П	Other (pl	Other (please write):					10	10. What is the highest level of school that you							
	I choose i	I choose not to answer this question				11	have finished?								
3.	migrant f	t any point in the past 2 years, has season or ligrant farm work been your or your family's ain source of income?			Less than high school degree More than high school			High school diploma or GED I choose not to answer this question							
	Yes		No	)		I choose not to answer thi question	11	1. What is y	s your current work situation?						
4.	Have you been discharged from the armed forces of the United States?					temporary work					Full-time work				
_						١١,	Otherwise unemployed but not seeking work (ex:								
	Yes		No I choose not to answer this student, retired, disable		l, unpaid pr	ima	ry care giver)								
Ш	question						J   ├	Please write: I choose not to answer this question							
5.	What language are you most comfortable speaking?						- 1	2. What is y							
Far	mily & Ho	me	•				-	2. **********	ou.			ince.			
6.	How many family members, including yourself, do			ΙГ	None/uninsured				Medicaid						
	you currently live with?				CHIP Medicaid Other public				Medicare						
									Other Public Insurance						
	I choose not to answer this question					insurance (not CHIP) (CHIP)									
						Private Ir	sur	ance							
7.	. What is your housing situation today?						13	3. During th	ne p	ast ve	ear. wh	at was the	tota	l combined	



# Steps to addressing SDOH

- 1. Communicating appropriately with patients about SDOH, without jeopardizing the patient/provider relationship. This is especially true during the initial stages of a relationship, when trust and therapeutic rapport have yet to be established. If a provider is viewed as presumptuous or judgmental, the provider-patient relationship could be unintentionally damaged.
- 2. Building an adequate referral network of agencies that offer expertise, services, or resources that address identified social needs can be complex and time consuming. This network of services should be based on data reflecting the patient population's most urgent needs and cataloguing the inventory of community resources. Health care organizations should dedicate resources to not only ensure that patients are referred to appropriate services, but also to build in consistent follow-up mechanisms to track connections to care and offer alternative options when necessary.



# Steps to addressing SDOH

- 3. Integrating electronic assessment tools and resource inventories appropriately into existing EHR systems. Off the-shelf, tested assessment tools such as PRAPARE include guidance and templates for its integration into an agency's existing EHR.
- 4. Breaking down silos between health and social service organizations, which typically have vastly different financing and IT systems. Organizations may need assistance in forming partnerships with social service agencies, developing strategies to align their systems, and building a streamlined referral process to track and deliver comprehensive resources to patients with complex needs.

https://www.chcs.org/media/SDOH-Complex-Care-Screening-Brief-102617.pdf Center for Health Care Strategies – supported by the RWJ Foundation



# Summary - what you can do

- ❖ Ask about SDOH
- Have a list of referrals
- ❖ Work with community leaders, regulators, and legislators
  - Removing PAs, payment barriers, extending Medicaid
  - SOR and other grant opportunities
  - Opioid settlement funds
- Collaborate with law enforcement with the CJS
- ❖ Become familiar with MI, TI care
- Provide low threshold MOUD
- \* Refer to programs offering evidence-based practices
- Work with colleagues, confronting stigma
- Educate ER and hospital providers, support Addiction Medicine consult services
- Support harm reduction and peer-based services
- ❖ Listen to our patients USU <a href="https://www.druguservoice.org/">https://www.druguservoice.org/</a>

