



Leading Florida's Green Industry







Opioids and Florida Agricultural Industries

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Introduction









What we will cover

Background opioids and opioid crisis

Research questions

Current study

Results

Resources

Summary

Background

Concerns brought to SCCAHS by FNGLA

Personal experiences among members

Workforce impact

- Not enough employees
- People can't pass drug tests
- People get addicted
- Come to work high, don't show up

What are opioids?

Opioid Data Analysis and Resources





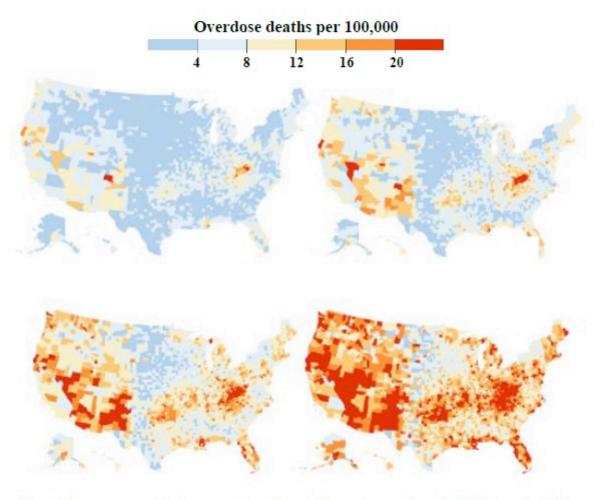


CDC's Injury Center looks at deaths and nonfatal overdoses for four categories of opioids:

- Natural opioids (including morphine and codeine) and semi-synthetic opioids (drugs like oxycodone, hydrocodone, hydromorphone, and oxymorphone)
- Methadone, a synthetic opioid
- Synthetic opioids other than methadone (drugs like tramadol and fentanyl)
- Heroin, an illicit (illegally made) opioid synthesized from morphine that can be a white or brown powder, or a black sticky substance.

Opioid Crisis

Figure 4: U.S. County Drug Overdose Death Rates over Time

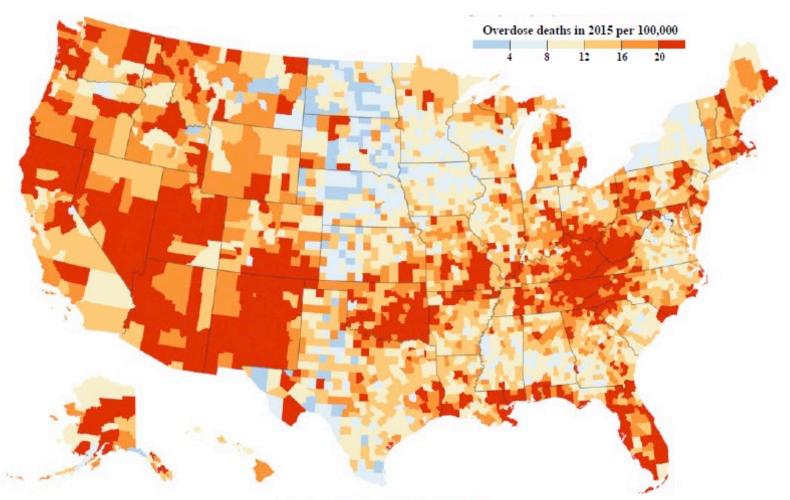


Note: The source article has a series of maps for each year from 1999 through 2014.

Source: Park and Bloch (2016).

Opioid Crisis

Figure 5: U.S. County Drug Overdose Death Rates, 2015



Source: Park and Bloch (2016).

Situation





Number prescriptions quadrupled 1999-2015 (CDC, 2017)



Easy physical addiction



Need larger quantities to produce effect (tolerance)

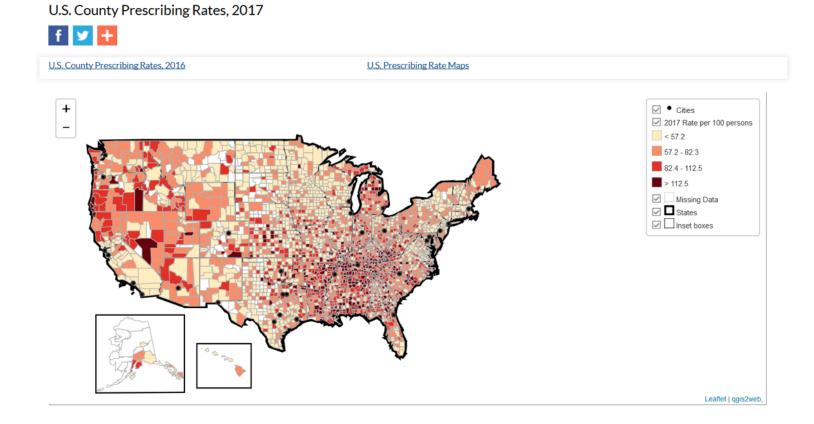


Number of deaths tripled 2000-2015 (CDC, 2017)



In Florida opioid deaths increased 35% 2015-2016 alone (FDLE, 2017)

Situation



Center for Disease Control and Prevention



92,000 ER visits in 2014



53,000 hospitalizations

Overdose



Work is harder to get/do if using/misusing opioids



Absenteeism, accidents, wage loss



Trauma to children and families



Burden to medical and penal system

Rural areas



Higher rates in rural areas



45% rural residents report directly affected by opioid abuse (Farm Bureau study, 2017)



74% in Ag industries report being affected by opioids (Farm Bureau study, 2017)



Rural areas have fewer resources to prevent, treat

What increases risk?

Chronic pain

Emotional pain/distress (including economic)

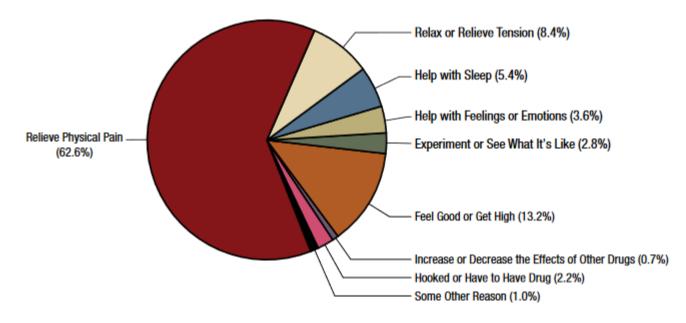
Rural location

History of abuse/family history

States without mandatory reporting

Why people misuse opioids

Figure 25. Main Reason for the Most Recent Prescription Pain Reliever Misuse among People Aged 12 or Older Who Misused Prescription Pain Relievers in the Past Year: Percentages, 2017



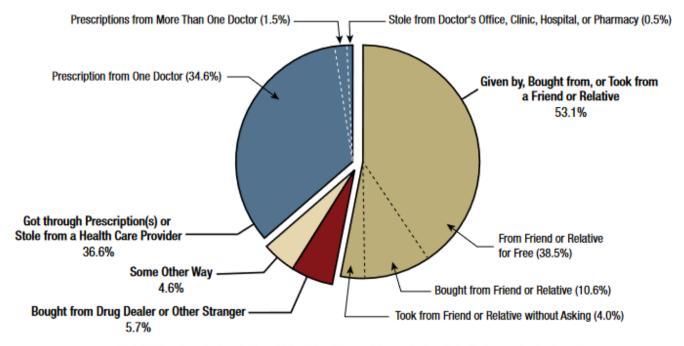
11.1 Million People Aged 12 or Older Who Misused Prescription Pain Relievers in the Past Year

Note: The percentages do not add to 100 percent due to rounding.

 $SAMHSA~(2017)~\underline{https://www.samhsa.gov/data/sites/default/files/cbhsq-reports/NSDUHFFR2017/NSDUHFFR2017.pdf}$

Where do people who misuse get their opioids

Figure 26. Source Where Pain Relievers Were Obtained for Most Recent Misuse among People Aged 12 or Older Who Misused Prescription Pain Relievers in the Past Year: Percentages, 2017



11.1 Million People Aged 12 or Older Who Misused Prescription Pain Relievers in the Past Year

Note: Respondents with unknown data for the Source for Most Recent Misuse or who reported Some Other Way but did not specify a valid way were excluded.

SAMHSA (2017) https://www.samhsa.gov/data/sites/default/files/cbhsq-reports/NSDUHFFR2017/NSDUHFFR2017.pdf

Treatment?



Hard to find, especially rural areas



Cost can be prohibitive, even if available



Often not enough is available/covered, especially follow-up



Medication assisted treatment has good results (methadone)



Need new coping (pain management, emotional coping)

Forces at play



NEED BETTER PAIN MANAGEMENT



PRESCRIBING – EDUCATING DOCTORS



FL-VOLUNTARY
PRESCRIPTION
MONITORING (NOT
MANDATORY)



MEDICATION DISPOSAL



DRUG COMPANIES



DRUG CARTELS
DEVELOPING NEW
MARKETS



AVAILABLE TO TREAT AND PREVENT, ESP. RURAL AREAS



How are Florida industries related to agriculture impacted by opioids?



Are there differences among industries?





Are there differences between owners and workers?



What about impact on families?



What roles do pain, stress and depression play in opioid use for this population?



What could help support our agricultural industries related to opioids?

Current study



Specific to Florida owners/workers in ag and nursery/landscape



Online survey (5-15 minutes); qualitative interviews next



Look at: opioid use; impact on workplace and family; depression, pain, and stress



To date 131 participants

Information on industry, owner/worker, location

Investigator generated opioid questions

Center for Epidemiological Studies Depression Scale, Revised (20 questions)

Perceived Stress Scale (10 questions)

Short Form McGill Pain Questionnaire (15 questions)

Measures Used



131 to date

Participants



56.5% own their business/43.5% work at a business



79 Nursery/landscape; 18 livestock; 31 crops; 3 none of these

Preliminary results



High level of opioid use (over 54%)



Opioid use highly associated with reports of pain and depression (some stress)



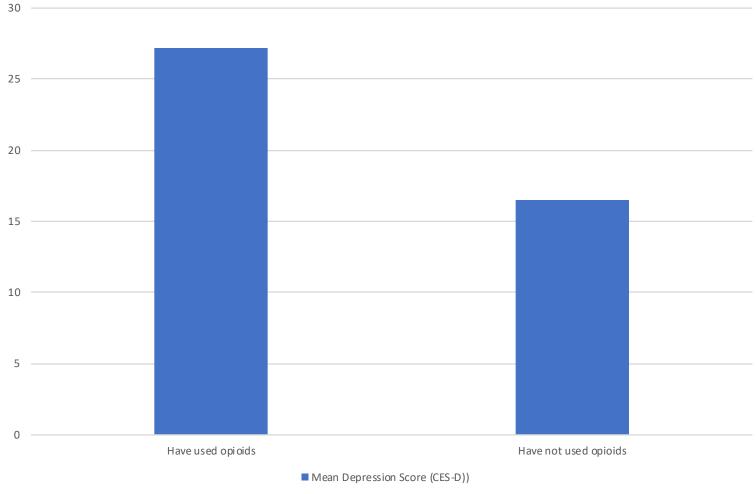
75% prescribed due to work injury



High level of addiction to opioids among those who use (64%), a lot seek treatment (87%)

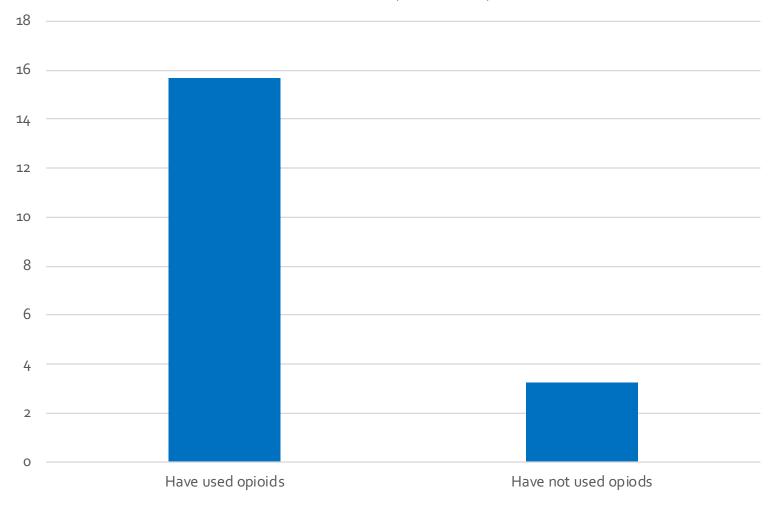
Depression and Opioid Use





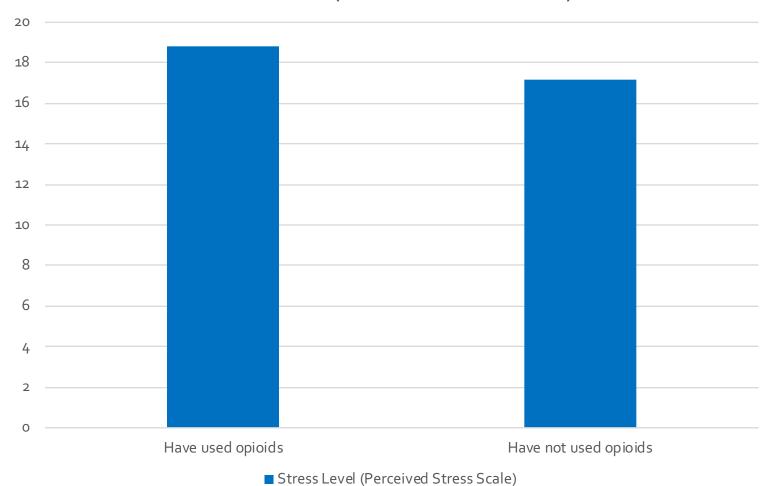
Pain and Opioid Use

Pain level (SF-MPQ)



Stress and Opioid Use

Stress Level (Perceived Stress Scale)



Preliminary results

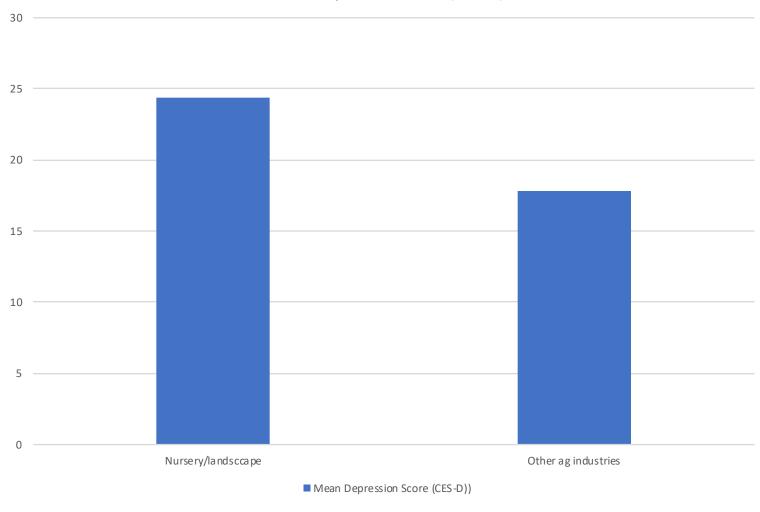
Only 8.1% owners say opioids have NOT affected workforce; 15% don't know of any opioid OD among employees



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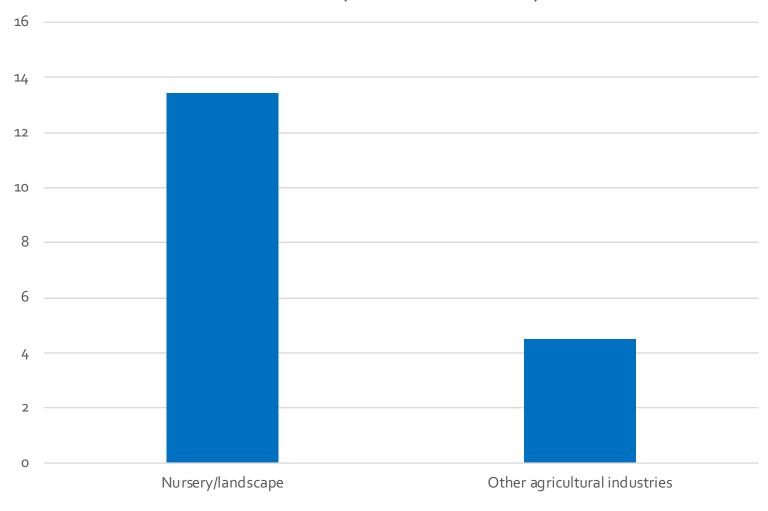
Depression and Industry

Mean Depression Score (CES-D)



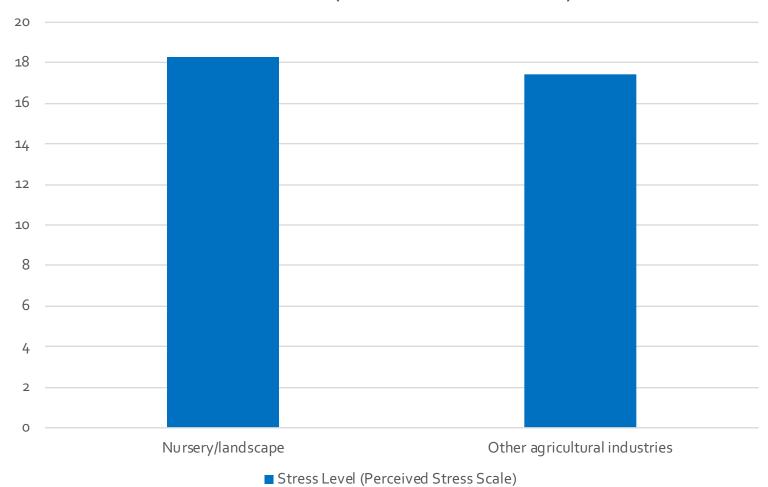
Pain and Industry

Pain level (McGill Short Form)



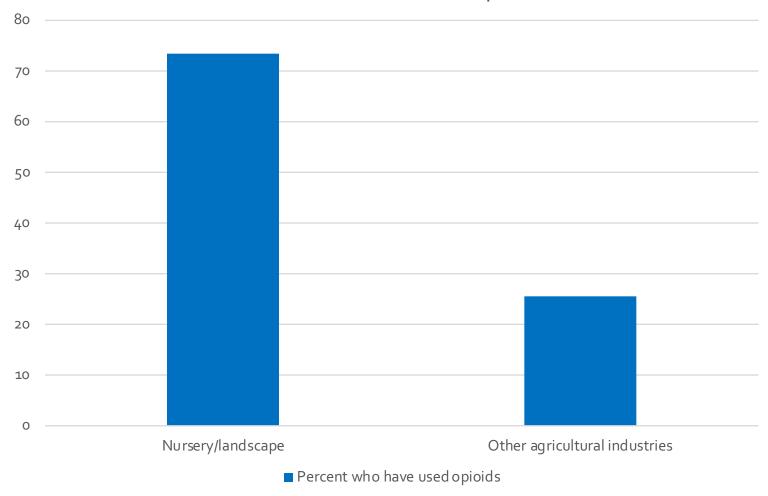
Stress and Industry

Stress Level (Perceived Stress Scale)



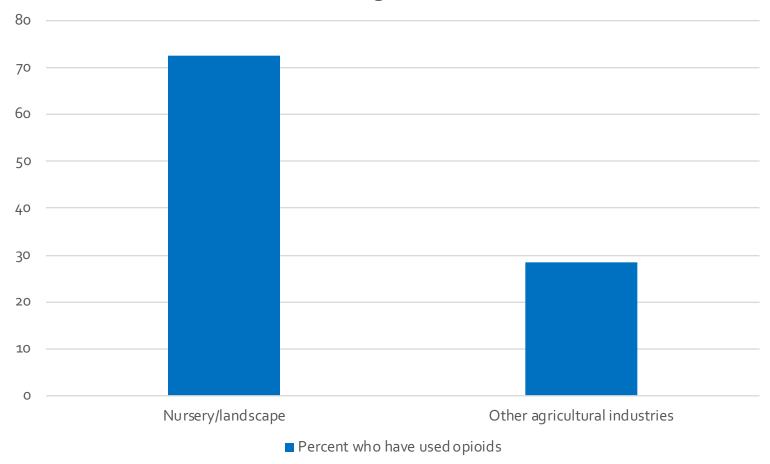
Opioid use and Industry

Percent who have used opioids



Opioid addiction and Industry

Percent who have used opioids reporting addiction diagnosis



Limitations



Online survey concerns



Not capturing all people (esp. non-English, non-computer/Internet use, non-survey takers, etc.)



Would like more participants



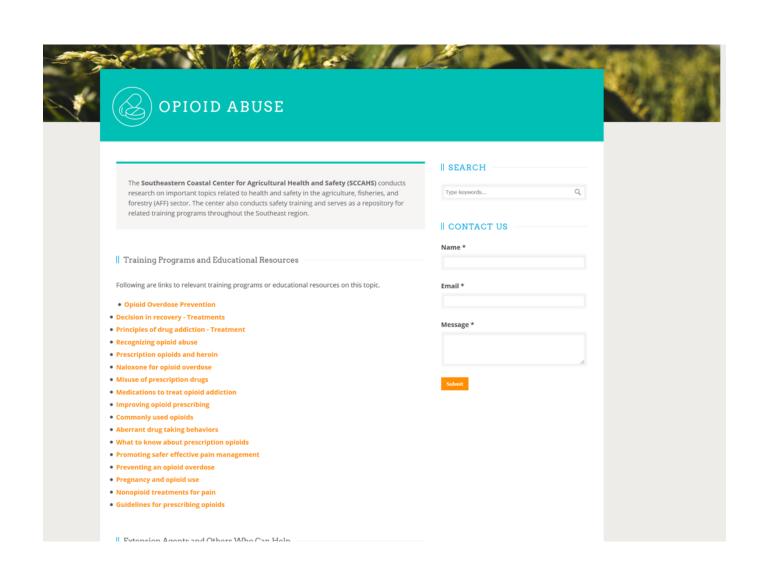
Need qualitative follow-up



Only a single time point, can't predict

http://www.sccahs.org/index.php/ag-health-safety-topics/opioid-abuse/

SCCAHS Resources



http://www.sccahs.org/index.php/fngla/

SCCAHS Resources

SCCAHS's partnership with FNGLA

The Southeastern Coastal Center for Agricultural Safety and Health (SCCAHS) is partnering with the Florida Nursery, Growers and Landscape Association (FNGLA) to develop and make available to FNGLA chapter members a set of the best online resources on opioids, with a special focus on opioids in the agriculture/environmental horticulture workplace. We expect to continue to add to these resources over time and to make available trainings as they are developed for employers and business owners with respect to your rights and responsibilities to your workers. The goal is to provide the best developed resources on opioids to chapter members all in one place, which can be linked from the FNGLA web site. We are also including a social media tool kit which can be used to inform and raise awareness within your organization and your networks. Over time, we hope to add an FAQ section and to reach out to members to get input as to what else you would like to see on the web page.

Click the links below to view resources from the Centers for Disease Control, the National Institute on Drug Abuse, the National Institute of Health, and the Substance Abuse and Mental Health Services Administration to learn more about opioid prevention, treatment and care, and human resources.

Prevention

Treatment and Care

Human Resources

Opioid overdose prevention
Recognizing opioid abuse
Preventing an opioid overdose
Guidelines for prescribing opioids
Promoting safer and effective pain
management
What to know about prescription opioids

Decision in recovery - Treatments
Principles of drug addiction - Treatment
Medications to treat opioid addiction
Opioid treatment directory
Heroin, Fentanyl, and Other Opioids eBook
Naloxone for opioid overdose

What Employers Should Do - Positive Opioid Tests The Proactive Role Employers Can Take -

Opioids in the Workplace Mitigating the Effects Opioid Use Among Workers

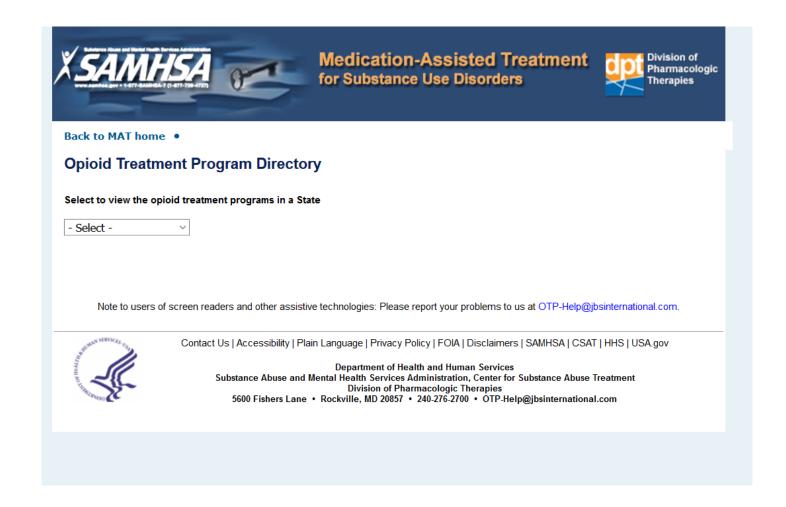
How Prescription Opioids May Be Affecting Workers Comp A Hidden Workplace Epidemic

What can employers ask employees about prescribed drug use

Turn the pages to explore the resources below from the Centers for Disease Control, National Institute of Health, and the National Safety Council, or click on each page to open up or download the PDF.

https://dpt2.samhsa.gov/treatment/directory.aspx

SAMHSA Resources



https://dpt2.samhsa.gov/treatment/directory.aspx

SAMHSA Resources

- National Suicide Prevention Lifeline
- 1-800-273-TALK (8255)
- Free and confidential support for people in distress, 24/7.
- Behavioral Health Treatment Services Locator
- Find treatment facilities confidentially and anonymously, 24/7.
- National Helpline
- <u>1-800-662-HELP (4357)</u>
- Treatment referral and information, 24/7.

https://www.cdc.gov/opioids/

Center for
Disease
Control and
Prevention
Resources



Responding to the national opioid crisis is a priority for the Department of Health and Human Services. Learn more about efforts at HHS [7].

Summary



Significant impact on agricultural industries, esp. nursery/landscape



Impact on labor availability, productivity



High levels addiction



Pain and depression high association with use



Many prescribed due to work injuries

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