

The ASAM Review Course of Addiction Medicine
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Financial Disclosures

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Interact with patients and professional colleagues so as to display professionalism in all activities, by demonstrating commitment to the health and well-being of individuals and society through ethical practice, profession-led regulation, and high personal standards of behavior.

Reflect on the role of behavioral interventions for patients and families including formal intensive ambulatory and inpatient treatment and informal programs such as mutual aid groups in the recovery process for patients in their practice/communities.

Presentation Outline

Concepts in prevention
Levels of prevention
Arenas of prevention
Overdose prevention
Naloxone
Prevention of blood borne infections
Syringe access
Opioid maintenance as prevention
Multiple areas

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Goals of Prevention To reduce mortality To reduce transmission of blood-borne viruses To preserve or improve the general health and well being of individuals To reduce drug-related crime To reduce or cease drug use

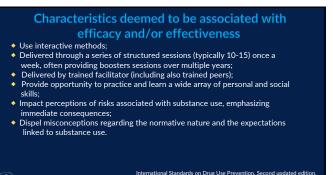
Primary Prevention

Primary prevention aims to prevent disease or injury before it ever occurs. This is done by preventing exposures to hazards that cause disease or injury, altering unhealthy or unsafe behaviours that can lead to disease or injury, and increasing resistance to disease or injury should exposure occur.

Prevention of drug use
Prevention of HIV & HCV: Syringe access, condoms, opioid maintenance

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Vienna: United Nations Office on Drugs and Crime and the World Health
Organization, 2018

https://www.iwh.on.ca/what-researchers-mean-by/primary-secondary-a tertiary-preven

Characteristics deemed to be associated with lack of efficacy and/or effectiveness or with adverse effects

- Utilize non-interactive methods, such as lecturing, as a primary delivery strategy;
- Information-giving alone, particularly fear arousal.
- Based on unstructured dialogue sessions;
- Focus only on the building of self-esteem and emotional education;
- ◆ Address only ethical/ moral decision making or values;
- Use ex-drug users as testimonials.

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International Standards on Drug Use Prevention, Second updated edition Vienna: United Nations Office on Drugs and Crime and the World Health Organization, 2018

Secondary Prevention

- Secondary prevention aims to reduce the impact of a disease or injury that has already occurred. This is done by detecting and treating disease or injury as soon as possible to halt or slow its progress, encouraging personal strategies to prevent reinjury or recurrence, and implementing programs to return people to their original health and function to prevent long-
- Screening and referral for substance use disorders
- Overdose prevention with naloxone access

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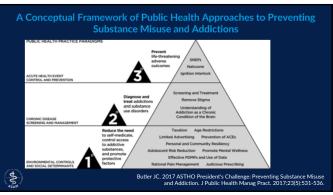
Tertiary Prevention

Tertiary prevention aims to soften the impact of an ongoing illness or injury that has lasting effects. This is done by helping people manage long-term, often-complex health problems and injuries (e.g. chronic diseases, permanent impairments) in order to improve as much as possible their ability to function, their quality of life and their life expectancy.

Medications for addiction treatment

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https://www.iwh.on.ca/what-researchers-mean-by/primary-second-tertiary-pri 12



World Heath Organization Prevention of Hepatitis C

Primary prevention

- safe handling and disposal of sharps and waste;
- provision of comprehensive harm-reduction services to people who inject drugs including sterile injecting equipment and effective treatment of dependence;
 testing of donated blood for HCV; and
- prevention of exposure to blood during sex.

Secondary prevention:

For people infected with the hepatitis C virus, WHO recommends:

- immunization with the hepatitis A and B vaccines to prevent coinfection from these hepatitis viruses and to protect their liver;
- early and appropriate medical management including antiviral therapy; and
- regular monitoring for early diagnosis of chronic liver disease



www.who.int/news-room/fact-sheets/detail/hepatitis-c

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Environmental Interventions

Primordial prevention consists of actions to minimize future hazards to health and hence inhibit the establishment factors (environmental, economic, social, behavioral, cultural) known to increase the risk of disease

Examples related to drug use with some evidence base

- Reducing the number of liquor outlets
- ◆ Raising the cost of tobacco
- Allowing purchase of clean syringes
- Economic and social equality?



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Supply Reduction

"Preventing, stopping, disrupting or otherwise reducing the production and supply of illegal drugs; and controlling, managing and/or regulating the availability of legal drugs."

- Age restrictions
- Limiting density of licensed retailers and venues
- Prevent, stop, disrupt or reduce production and supply



Department of Health. National Drug Strategy 2017-2026. Canberra Commonwealth Department of Health; 2017

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Demand Reduction

"Preventing the uptake and/or delaying the onset of use of alcohol, tobacco and other drugs; reducing the misuse of alcohol, tobacco and other drugs in the community and supporting people to recover from dependence through evidence- informed treatment"

- Price mechanisms- taxes
- ◆ SUD treatment
- ◆ Addressing underlying determinants of substance use disorders



Department of Health. National Drug Strategy 2017-2026. Canberra: Commonwealth Department of Health; 2017

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Harm Reduction

"Reducing the adverse health, social and economic consequences of the use of drugs, for the user, their families and the wider community"

- Smoke-free areas
- Responsible venue operations
- ◆ Hepatitis B vaccination
- Syringe and naloxone access



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Department of Health. National Drug Strategy 2017-2026. Canberra Commonwealth Department of Health; 201

Harm Reduction Principles

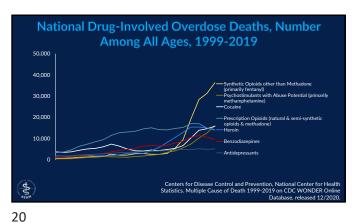
A set of practical strategies by which harm related to illicit drug use is reduced

- Recognizes that drug use is common
- Include a "spectrum" of strategies from safer use to abstinence
- Low threshold: entry requirements appropriate to the targeted group
- Goal: a longer and healthier life, regardless of drug use



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Strategies to address overdose

- ◆ Increase access to naloxone
- ◆ Good Samaritan laws
- Prescription monitoring programs
- Prescription drug take back events
- ◆ Safe opioid prescribing education
- Expansion of opioid agonist treatment

Naloxone

- Prescribed opioid antagonist which rapidly reverses opioid related sedation and respiratory depression and may cause
- Overdose victims wake up minutes after administration
- Displaces opioids from the receptors for 30-90 minutes
- No pleasant psychoactive effects
- No other effects

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Training Essentials

- What does naloxone do?
- Overdose recognition
- Sternal rub/grind
- Action
 - Call EMS and administer naloxone
- Recovery position



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An Innovative Model for Naloxone Use Within an OTP Setting

395 opioid treatment program patients trained on overdose & the use of naloxone; provided with 2-dose naloxone kits in a prospective study

- Over the course of 12 months 73 (18%) participants reported overdose reversals using naloxone auto-injector kits on 114 people -mostly friends and family
- None reported a kit used on themselves

Pharmacy Pharmacies across the country are now carrying naloxone Dispense with a patient specific order Co-prescribing with opioid prescriptions an increasing practice Dispense per an non-patient specific (standing) order Naloxone Overdose Prevention Laws http://pdaps.org/datasets/laws-regulating-administration-of-naloxone-1501695139

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Opioid-Related ED Visits by Receipt of Naloxone Prescription
Among Primary Care Patients with Chronic Pain

In a population with a rate of opioid-related emergency department visits of 7/100 person-years, prescribing naloxone to 29 patients would avert 1 opioid-related visit in the subsequent year

Coffin PO, Behar E, Rowe C, et al. Nonrandomized Intervention Study of Naloxone Coprescription for Primary Care Patients Receiving Long-Term Opioid Therapy for Pain. Ann Intern Med. 2016;165(4):245-252.

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Prevention of blood borne infections

Syringe access

Syringe Access

Legal options vary by state

Syringe exchange programs

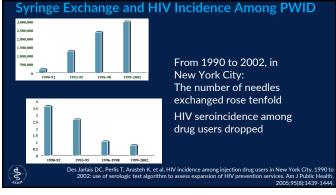
Over the counter sales at pharmacies (47 states)

Prescription (for purpose of reducing spread of blood borne illnesses)

Counseling: "I hope you never inject again but I want to be sure you and your associates know where to get a sterile syringe."

Syringe Distribution Laws http://lawatlas.org/datasets/syringe-services-programs-laws

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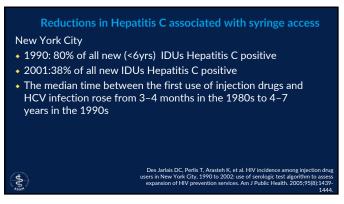


Reported and estimated number of acute hepatitis C cases

50,000

Estimated not reported
40,000
Reported
20,000
10,000
2013
2014
2015
2016
2017
Source: CDC, National Notifiable Diseases Surveillance System.

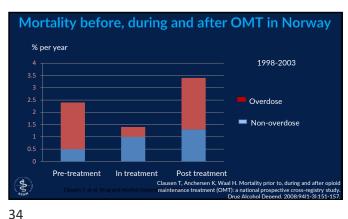
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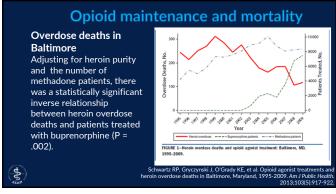
Opioid Maintenance and Prevention

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Opioid maintenance and mortality Prospective study of opioid dependent patients applying for methadone (and buprenorphine) treatment in Norway • 3,789 subjects followed for up to 7 years Clausen T. Anchersen K. Waal H. Mortality prior to, during and after opioid maintenance treatment (DMT): a national prospective cross-registry study. Drug Alcohol Depend. 2008;94(1-3):151-157.



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Opioid maintenance reduces infections

 Methadone maintenance was associated with a 54% reduction in risk of HIV infection among people who inject drugs

 Buprenorphine has been shown to reduce risk behaviors

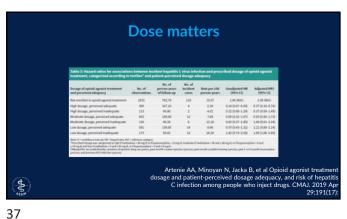
 Some studies are finding reductions in HCV incidence among patients on methadone or buprenorphine

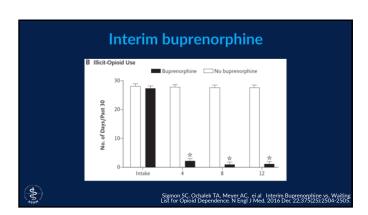
 MacArthur BMJ 2012, Tsui JAMA Int 2014, White MJA 2014, Artenia CMAJ 2019

MacArthur Georgie J. Minozzi Silvia, Martin Natasha, Vickerman Peter, Deren Sherry, Bruneau Julie et al. Opiate substitution treatment and HIV transmission in people who inject drugs: systematic review and meta-analysis BMJ 2012; 345 x5945

Tsui JI, Evans JL, Lum PJ, Hahn JA, Page K. Association of Opioid Agonist Therapy With Lower Incidence of Hepatity CVIrus Infection in Young Adult Injection Drug Users. JAMA Intern Med. 2014;174(12):1974-1981

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Opioid maintenance: other risk behaviors

Compared to former buprenorphine and methadone patients and those never on maintenance current patients had, in the past month

- fewer non-fatal overdoses (OR = 0.5)
- Additionally, they were less likely to have
- injected frequently (OR = 0.4)
- to have used heroin daily or almost daily (OR = 0.3)
- to have committed theft (OR = 0.6)
- engaged in drug dealing(OR = 0.7)

Implementing Transmucosal Buprenorphine for Treatment of Opioid Use Disorder: NYS Best Practices

- ◆ Counseling: Prescribers should ensure continued access to buprenorphine even in the absence of counseling.
- Poly-substance use: Prescribers should not discharge patients solely based on the use of prescribed or unprescribed substances including, but not limited to, cannabis, and benzodiazepines.
- ◆ Length of treatment: Treatment with buprenorphine should continue for as long as the patient is benefiting. Risk of return to illicit opioid use is high when treatment is discontinued.

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Implementing Transmucosal Buprenorphine for Treatment of Opioid Use Disorder NYS DOH&OASAS 2019

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Conclusions

Public health and prevention principles may be applied to

- Prevention or delaying onset of drug use
- Reducing or stopping drug use
- Prevention of morbidity and mortality despite drug use

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Measures aiming to delay the onset of alcohol use are

- A. Supply reduction
- B. Primary prevention
- C. Secondary prevention
- D.Tertiary prevention

Which of the following has been documented to reduce the risk of opioid overdose?

- A. Provision of naloxone
- B. Good Samaritan laws protecting persons with an overdose and the rescuer
- C. Prescription take back programs
- D. Prescription monitoring programs

Which of the following is considered to be an effective to prevent drug use?

- A. Using ex-drug users as testimony
- B. Giving information in lectures, focusing on fear arousal
- C. Dispelling misconceptions regarding the normative nature and the expectations linked to substance use
- D. Addressing only ethical/ moral decision making or values