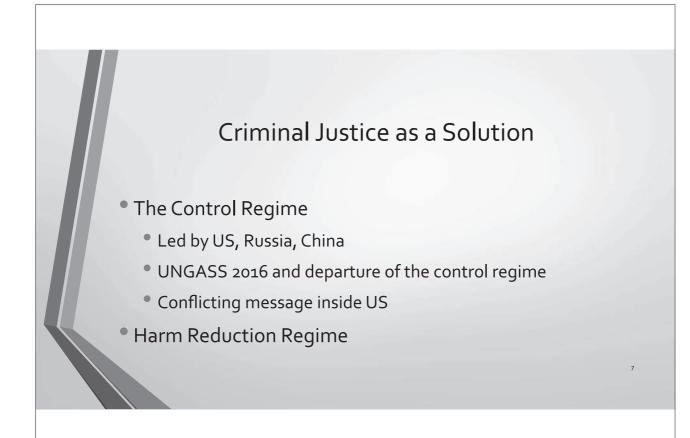


No Easy Solutions

- Don't look to US or Western world for easy solutions
- We are all trying to find good solutions
- Current US crisis in opioid overdose



Drawbacks of Justice System as a Solution

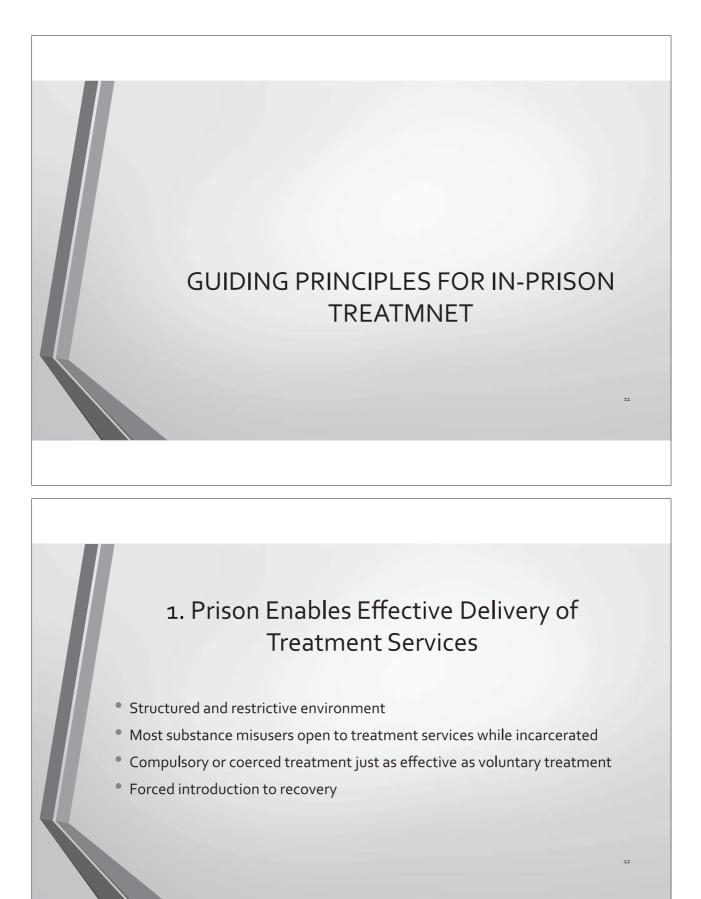
- Substance misuse is a complex problem
 - multitude of problems—physiological, psychological, and social—none of which have easy solutions.
 - Complex problems require complex and flexible response
 - Prison system is rigid and inflexible
 - Unfair to ask criminal justice system --primary role is to enforce the law and penalize the law breakers.
 - Treating substance misuse disorder requires a different mindset and response setup, one that sometimes does not sync well with the justice system.



Prison as Public Health Frontline

 Prison environment is excellent for screening and treating substance abusers for infectious diseases : HIV/AIDS, hepatitis B and C, and tuberculosis because:

- poor hygiene due to living conditions
- Limited access to public health services
- Risky if not careful in a prison environment because of crowded environment



2. Chronic Drug Use Causes Brain Damage

- Disruption of nutrients needed by brain tissue; Direct damage, injury, and death of brain cells, including neurotransmitter receptors; Alterations to brain chemical concentrations, including neurotransmitters and hormones; Deprivation of oxygen to brain tissue
- Permanent or Transient Damage. Some damage may be possible to reverse—supplying
 missing nutrients that promote reestablishment of chemical pathways in the brain. Earlystage damage can be repaired; but damages due to extensive use is difficult to recover.
- Stimulants act on dopamine and its receptors in the brain, causing anhedonia (diminished ability to feel pleasure; marijuana—psychosis; hallucinogens—persistent perception disorder (Snow, Flashbacks, Echoes, Visual distortion); opioid suppresses breathing decreasing blood oxygen to the brain, may cause death or coma. Long-term use of opioid leads to hypoxia—slow developing brain damage due to brain oxygen deprivation.

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4. Risk/Needs Assessment and Adjust Treatment Accordingly

- Many substance misusers have criminal records, thus at risk of reoffending
- Prior to treatment, risk assessment is important to identify (1) risk of conduct disorder and reoffending, and (2)) treatment needs and criminogenic needs. *More on risk/needs assessment later*
- Treatment plans may require a combination of treatment options, for instance, medication plus counseling or psychotherapy. Other services inside the prison may also be added to the treatment plan, such as drug education, peer support groups, or self-help groups.

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5. Aftercare Is Critical for In-Prison Treatment Activities

- Secession and abstinence easy to achieve inside prison, but difficult to maintain treatment effects once released.
- Research has consistently shown that the length of stay in treatment programs is directly related to the overall success.
- Furthermore, taking the long-term perspective also means that relapses will occur to many of these
 inmates, and multiple episodes of treatment thus become a normal part of their recovery process.
- Many justice-involved substance misusers will return to prison and start in-prison treatment program again, and again. Important to recognize substance misuse as a form of chronic illness that requires not only inprison treatment but also aftercare programs after release.
- Retention in aftercare is key to treatment success. Without the prison structure, alternative strategies or
 incentives need to be developed to keep these substance misusers in the treatment program.





Limited Pharmacotherapies for Substance Misuse Treatment

Only established protocols for opioid use

• Why (compared to other common diseases)?

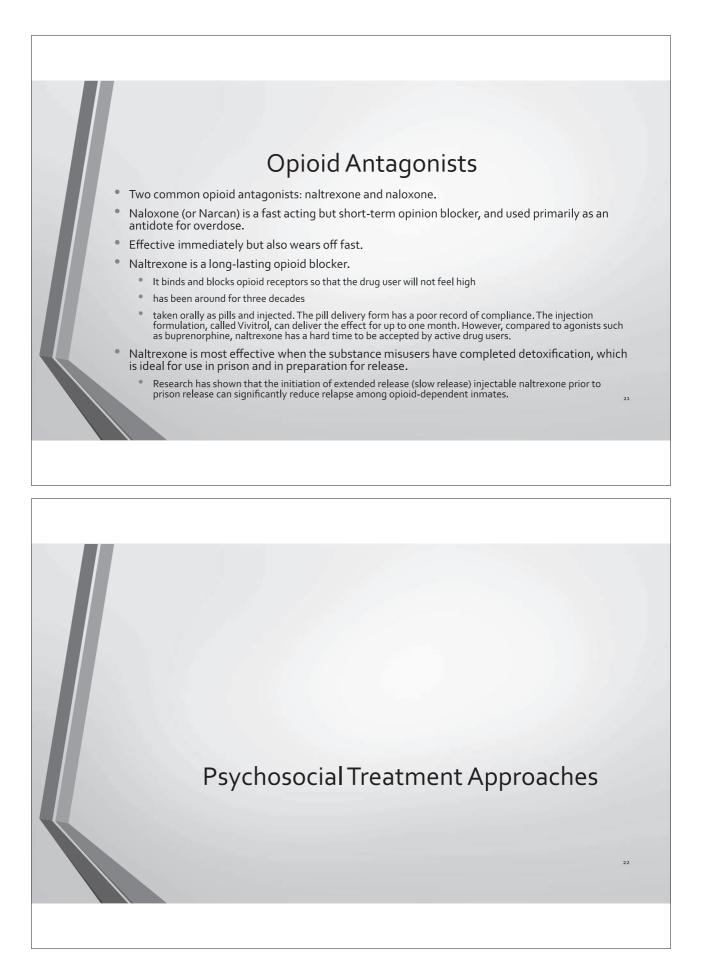
- Complex problem?
- Limited funding affecting certain social class?

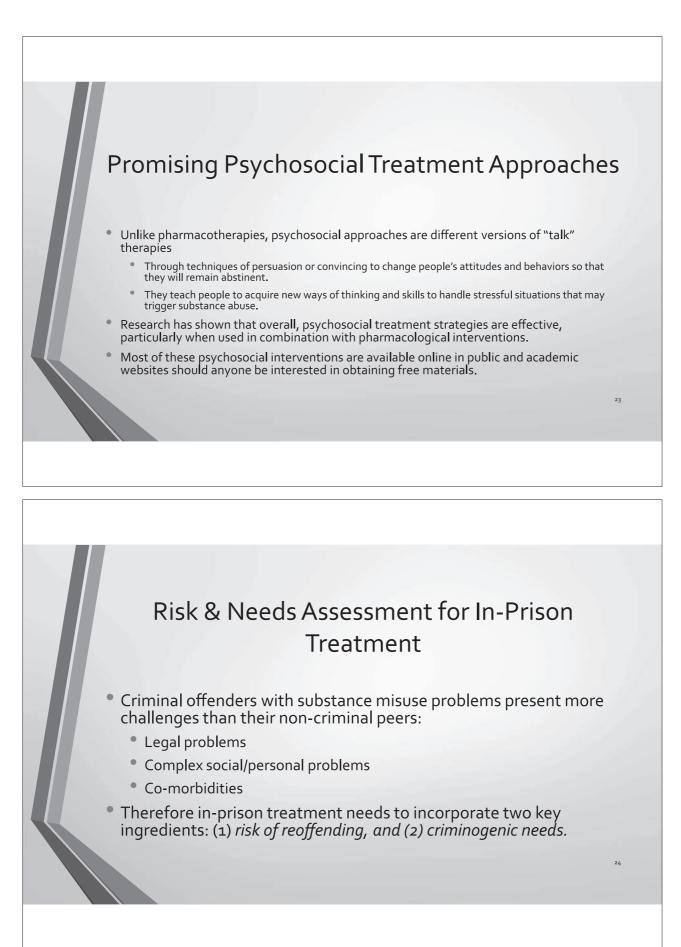
Opioid Agonists

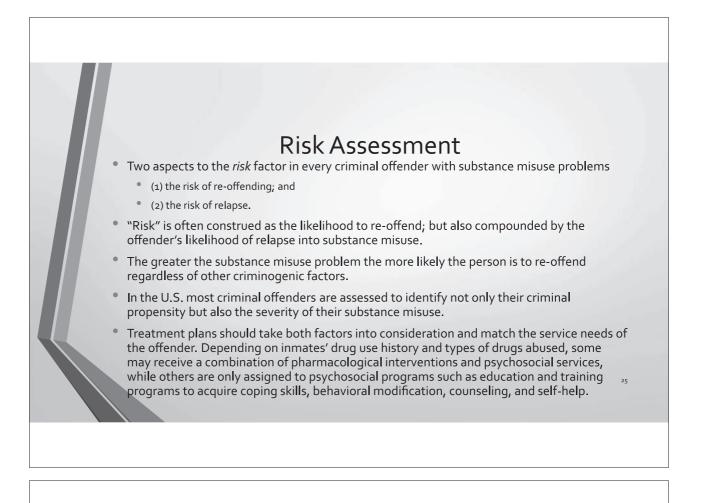
- Methadone and buprenorphine are the only two drugs approved by the FDA for clinical use.
- Methadone, a synthetic opioid agonist for the purpose of substitution, has been around for decades.
 - provide euphoria similar to heroin; reduce withdrawal symptoms and reduce craving for illicit opioid drugs.
 - Also act to block the effects of illicit opioids.
 - Taken orally on a daily basis; tightly controlled.

Buprenorphine, also a synthetic opioid but only a partial agonist

- Helps reduce cravings and withdrawal symptoms, but does not produce the euphoria and sedation similar to heroin
- Less risk of respiratory depression or overdose than methadone; taken orally, can be at doctor's office
- Oftentimes buprenorphine is combined with the antagonist naltrexone, a formulation called Suboxone. An
 implant version in the form of small rods are available, effective for four to six months.







Needs Assessment

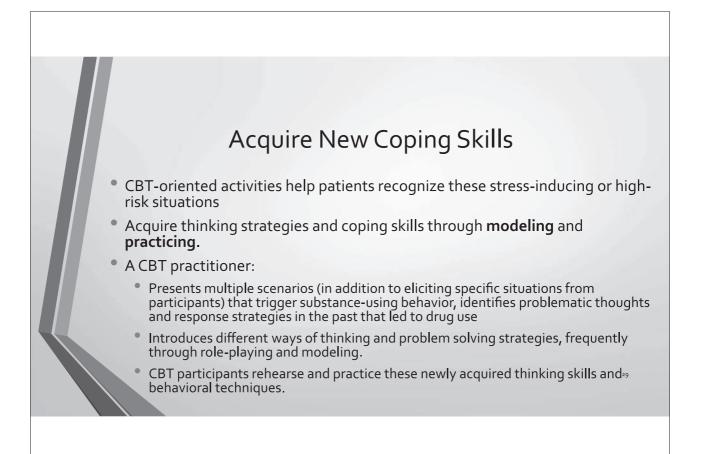
- Needs assessment is an extension of risk assessment.
- To achieve optimal allocation of resources to those in greatest needs.
- Treatment needs often associated with criminal offenders: criminal thinking, criminal associates, impulsivity, risk taking, limited self-control, poor problemsolving skills, poor educational and employment skills, and drug and alcohol dependence.
- Most US prisons use instruments developed in house or purchased commercially. Because of the high demand, risk/needs assessment has become an industry. Similar to other established psychometric tests, correctional agencies are typically charged license fees and/or per-use fee.
- There are free options. Most of the measures in these risk/needs assessment tools are similar to one another. There are no secrets to what these items are.

Cognitive Behavioral Therapy

- Most common. Emphasizing cognitive changes in how people perceive events or situations and what alternative activities one may use to resolve their predicaments.
- Received the most attention in evaluation. In general produced more consistent positive findings than any other psychosocial approaches such as psychodynamic therapy, psychoeducation, physical exercise and supportive interventions. There are numerous variants of CBT.
- Two main components: identify and understand events and situations that provoke negative emotive states; and learn alternative coping skills and apply these newly acquired skills to wider situations.

Attitude Adjustment

- CBT starts with "attitude adjustment"
- Change the way criminal offenders think or perceive things.
- The philosophy behind CBT assumes that people who abuse drugs usually are aware of their predicaments but unable to navigate through life's challenges (i.e., triggers or drug use cues) without resorting to drug-induced solutions.
 - Internal trigger events: negative physical or mental states such as not feeling well or depressed
 - Interpersonal: peer pressure or negative social encounters
 - Situational: social settings that induce stress or pressure





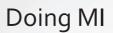
Voucher-Based Reinforcement Therapy (VBRT)

- A treatment participant is rewarded with an incentive following a clean drug test, typically through urinalysis.
- A substance misuser receives a voucher worthy of a monetary value each time he/she is tested clean. Consecutive clean tests can increase the value of the voucher.
- For instance, the first time a clean urinalysis is worth \$1.00. The second test, the voucher will be worth \$1.50, and the third consecutive clean test will be worth \$2.00. After three clean tests, the program participant will earn a total \$4.50.
- However if the fourth test turns dirty, the voucher will be worth \$1.00, reset to its starting value. The idea is that as the voucher becomes more valuable with each successive clean test, the participant will be incentivized to stay clean, ³⁸ hoping to cash in for a sizable cash award at the end.

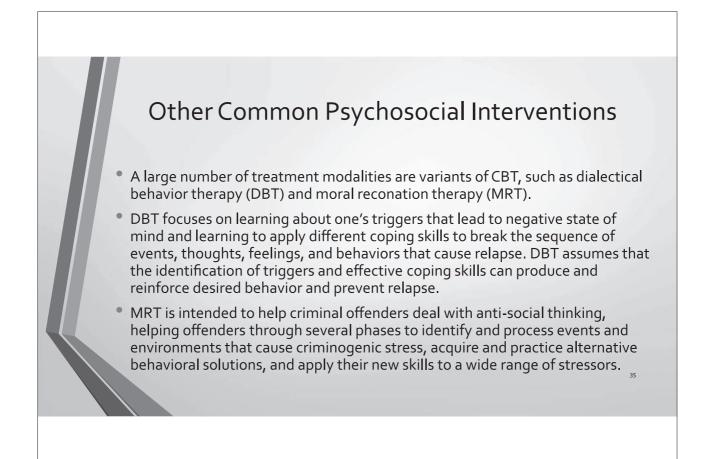
Prize-Based Procedure

- Each clean urinalysis is rewarded with a chance to win something from a bowel filled with paper tickets or slips for various prizes.
- After a negative drug test, he/she will get to draw a prize from the prize bowel. Oftentimes the ticket or slip contains nothing more than a few encouraging statements, such as "good job". The majority of the slips in the bowel contain low value prizes.
- As the participant turns in consecutive clean urine samples, he/she is afforded additional chances to draw prizes, thus increasing his/her chances of winning "big" prizes, e.g., a \$100 gift card.
- But a dirty test will reset to only one draw from the bowl.

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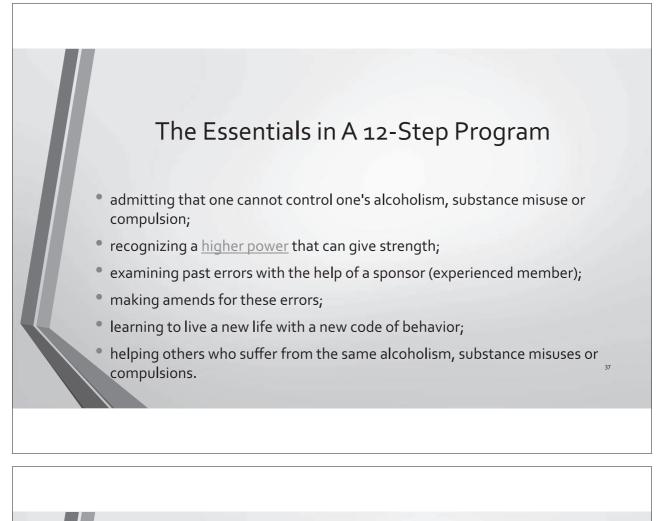


- MI procedures are typically brief and used in conjunction with other behaviorally oriented treatment activities.
- MI starts with an assessment of the program participant, then the therapist uses the information to stimulate discussion and self-motivation. The treatment consists of brief sessions, during which participants make a plan for change and devise strategies to maintain abstinence.
- Because MI is brief and manualized, it can be applied in settings where there are few other treatment resources. Free materials available online at the U.S. government agency (such as NIDA) websites.

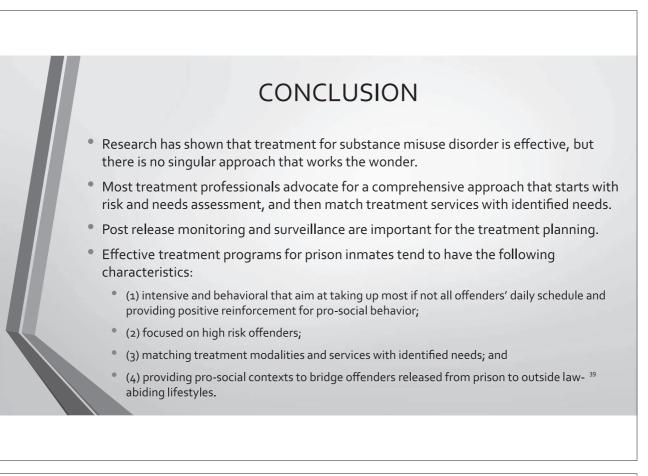


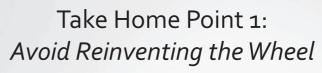
Self-Help Programs

- Widely practiced in the U.S. among substance misuse community
- Originally as Alcoholics Anonymous (AA)—a self-help style of support groups for alcoholics.
- There are AA groups practically in all corners of the U.S., where mentors are helping mentees abstain from drinking.
- There are also 12 traditions to go along with the 12 steps of changes that govern behavior of AA members. The 12-step program first emerged in the 1930s and, although there have been changes over the decades, the essential elements remain.



- 1. We admitted we were powerless— that our lives had become unmanageable. HONESTY
- 2. Came to believe that a Power greater than ourselves could restore us to sanity. HOPE
- 3. Made a decision to turn our will and our lives over to the care of God as we understood Him. FAITH
- 4. Made a searching and fearless moral inventory of ourselves. COURAGE
- 5. Admitted to God, to ourselves and to another human being the exact nature of our wrongs. INTEGRITY
- 6. Were entirely ready to have God remove all these defects of character. WILLINGNESS
- 7. Humbly asked Him to remove our shortcomings. HUMILITY
- 8. Made a list of all persons we had harmed and became willing to make amends to them all. SELFDISCIPLINE
- 9. Made direct amends to such people wherever possible, except when to do so would injure them or others. LOVE FOR OTHERS
- 10.Continued to take personal inventory and when we were wrong, promptly admitted it. PERSEVERANCE
- 11.Sought through prayer and meditation to improve our conscious contact with God as we understood Him, praying only for knowledge of His will for us and the power to carry that out. SPIRITUAL AWARENESS
- 12.Having had a spiritual awakening as the result of these Steps, we tried to carry this message to compulsive overeaters and to practice these principles in all our affairs. SERVICE





- Psychosocial interventions do not contain proprietary ingredients that, if packaged together, can somehow deliver guaranteed results. So no need to purchase any commercial training manuals or packages. Be very suspicious if someone advocates a commercial product or encourage one's agency to purchase a so-called name brand in substance misuse treatment field.
- No shortage of companies, many of them in the U.S., that are eager to sell or promote packaged
 programs for a fee. Many companies also try to get listed on government agency websites as a
 way to increase their "legitimacy".
- Free manualized treatment protocols (and assessments) can be obtained so that wellestablished psychosocial interventions can be implemented with little or no cost. Check U.S. government websites, such as National Institute for Drug Abuse.
- It is important to develop culturally-sensitive programs, but the theories underlying the abovementioned treatment modalities are common across all societies, and have been tested and standardized through numerous clinical studies with different social and ethnic groups.
- More importantly, these psychosocial principles are simple enough for ordinary people to master, thus providing cost-effective treatment to peer support groups in places where there are few mental health professionals.

Take Home Point 2: Use Rigorous but Inexpensive Evaluation Strategies to Improve Treatment Programs Over Time

- Evaluation research should be a standard component in all agencies that provide substance misuse treatment services.
- Psychosocial interventions that are often culturally responsive tend to vary somewhat from place to place. Once a psychosocial intervention takes on a local flavor, it should be evaluated so that incremental improvements can be made.
- By rigorous, we do not mean expensive. RCTs are the most basic design to prove the efficacy of a treatment protocol.
 - The key objective of a randomized controlled trial is to create a condition för "objective" or "non-judgmental" comparison, and prevent cherry picking.

