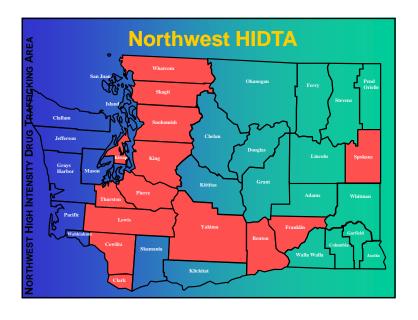
Prescription Drug Abuse: Trends and Consequences "Putting the Pieces Together for Children and Families" The National Conference on Substance Abuse, Child Welfare and the Courts Gaylord National Resort and Convention Center Potomac National Harbor, Maryland September 16, 2011 Steven Freng, Psy.D., MSW NW HIDTA Prevention/Treatment Manager

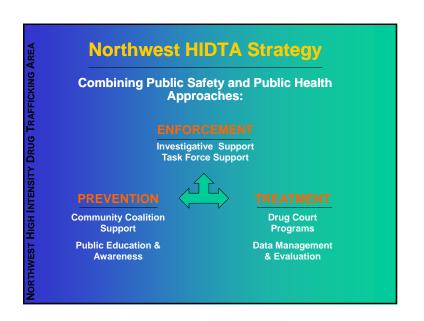
Office of National Drug Control Policy High Intensity Drug Trafficking Areas

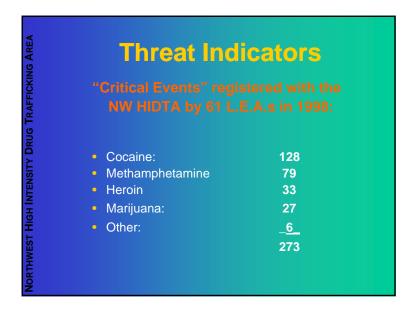
What is a HIDTA?

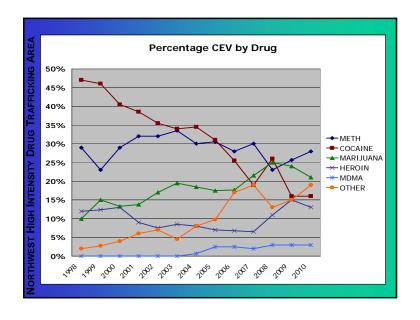
"HIGH INTENSITY DRUG TRAFFICKING AREA"

HIDTAs are part of the national drug control strategy. They are grant programs managed by the Office of National Drug Control Policy, awarded to geographic areas that are considered to be critical centers of drug production, manufacturing, importation, distribution and/or chronic consumption.









Northwest High Intensity Drug Trafficking Area	Threat Indicators "Critical Events" registered with the NW HIDTA by 75 L.E.A.s in 2010:	
DRUG	Methamphetamine:	819
È	Marijuana:	639
ENS	 Cocaine 	475
돌	Rx Opiates:	413
훈	Heroin:	383
TS	MDMA (Ecstasy):	97
HWE	Other:	<u>146</u>
NoR		2,972

IORTHWEST HIGH INTENSITY DRUG TRAFFICKING AREA

Psychoactive Drugs by Group/Type

- Nicotine
- Marijuana
- Stimulants
- Opiates
- Sedatives
- "Atypical" Drugs
- Hallucinogens

ST HIGH INTENSITY DRUG TRAFFICKING ARI

What Makes a Substance "Psychoactive"?

- Psychoactive substances -- "drugs" -- modify the neurochemistry of the reward/pleasure process
- Drugs activate or imitate the chemicals -neurotransmitters -- associated with and/or located in the reward/pleasure center
- Specifically, drugs stimulate the release of dopamine and endorphin but in an <u>enhanced</u> manner
- Dopamine produces "excited euphoria", endorphin produces "calm euphoria"

Factors Contributing to Abuse

- Biological predisposition
- Childhood experiences modeling, neglect and abuse, depression, trauma
- Culture, norms
- Lack of socioeconomic barriers
- Underlying mood, affective disorders, PTSD

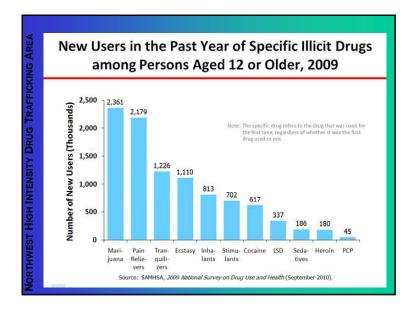
INTENSITY DRUG TRAFFICKING

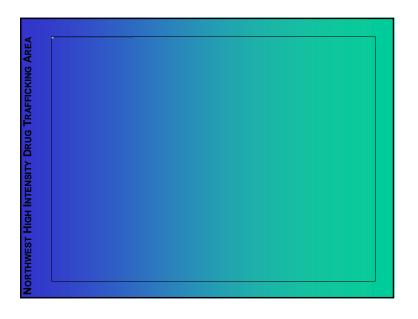
Addiction

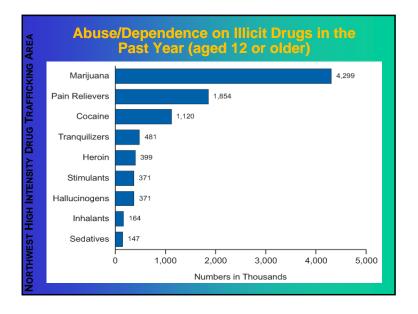
- Addiction is a "disease of the brain", most descriptively defined by a progressive loss of control over use
- Addiction entails four criteria:
 - compulsion -- involuntary, irrational usage behaviors
 - continued use despite adverse consequences
 - craving -- intense, irrational psychological preoccupation
 - denial -- a distortion of perception caused by craving
- Addiction includes Abstinence Syndrome at cessation of use withdrawal is comprised of symptoms that are described as a "rebound effect" from the particular drug to which the user has become dependent

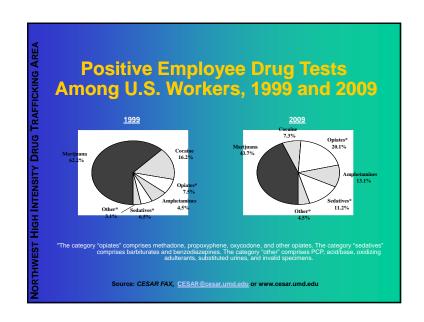
Types of Commonly Abused Prescription Drugs

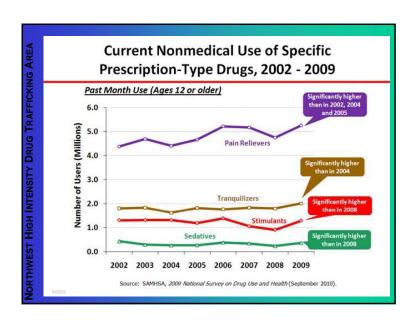
- Stimulants ---
 - Prescribed to treat narcolepsy and attention deficit/hyperactivity disorder (Ritalin, Adderal)
- Sedatives ---
 - Prescribed to treat anxiety and sleep disorders (Phenobarbital, Valium, Xanax)
- Opiates --
 - Prescribed to treat acute and chronic pain (Hydrocodone, Oxycontin, Methadone)

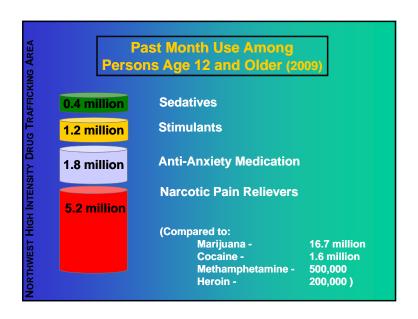












Past-year initiation of non-medical prescription medication use has surpassed the rate for marijuana – 2,500 youth use Rx drugs to get high for the first time every day. Seven out of the top ten drugs used by teens are prescription medications. E-R visits involving the non-medical use of prescription opiates increased 111% from 2004 to 2008 – 71,000 people were admitted to hospitals for overdoses in 2006. Treatment admissions for addiction to prescription opiates increased 400% from 1997 to 2007. 39% of heroin users responding to a 2009 needle exchange survey in King County reported addiction to Rx opiates prior to using heroin.

Opiates



- Natural Opium, morphine, codeine
- Semi-synthetic Heroin, Dilaudid (hydromorphone)
- Synthetics Oxycontin®, Percodan®, Percoset® (oxycodone, derived from morphine)

Vicodin®, Lortab® (hydrocodone)

Methadose®, Dolophine® (methadone)

Darvon® (propoxyphene)

Demerol® (meperidine)

Duagesic® (fentanyl)

INTENSITY DRUG TRAFFICKING

Opiates

- Opium, heroin, morphine, codeine, Dilaudid, Percodan, Demerol, Methadone, Fentanyl
 - Potent analgesics
 - Relatively short half-life, tolerance develops very rapidly with frequent use
 - Overwhelming sense of well-being, altering the subjective experience of physical and emotional pain
 - Gastrointestinal symptoms most common among chronic users
 - Relatively mild withdrawal syndrome (especially when compared to alcohol/sedatives)
 - Severe health risks due to intravenous administration, including HIV/AIDS, Hepatitis, aggressive infections

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Prescription Opiates

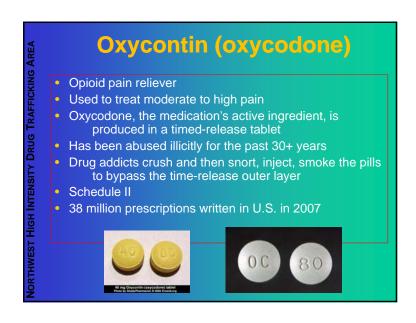
- Obtained legally by prescription; obtained illegally from friends/family (free or purchased), through multiple providers, via theft, illegitimate prescriptions, illegal Internet pharmacies
- Now also trafficked by numerous DTOs as "part of the inventory"
- Prescription opiates ranked 5th in prevalence within the region
- Prescription opiates ranked 5th as a regional threat
- Prices for illicit purchase vary: unreformulated oxycodone sells for \$1 per milligram

Vicodin (hydrocodone)

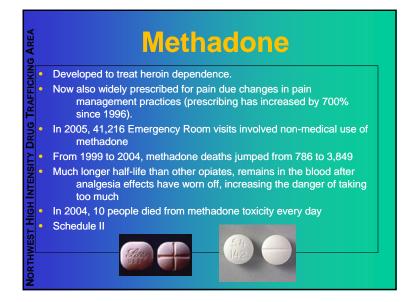
- Includes Acetaminophen (Tylenol)
- Narcotic/Opioid pain reliever
- Used to relieve moderate to severe pain
- Antitussive (cough suppressant)
- Structurally similar to codeine but with effects more similar to morphine
- Habit-forming: use/abuse of hydrocodone is associated with tolerance, dependence, and addiction
- Risk of liver toxicity when high, acute doses are consumed
- Schedule III
- 119 million prescriptions written in U.S. in 2007

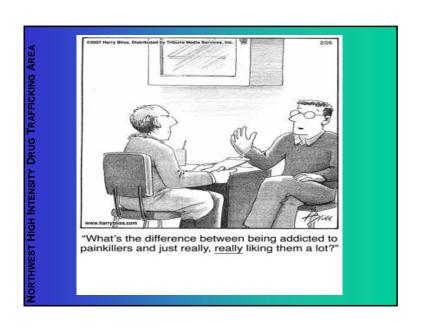




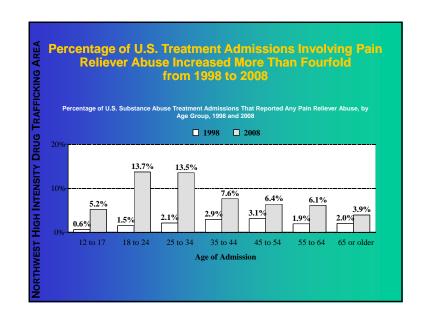


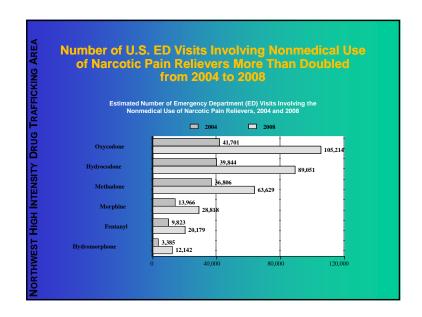


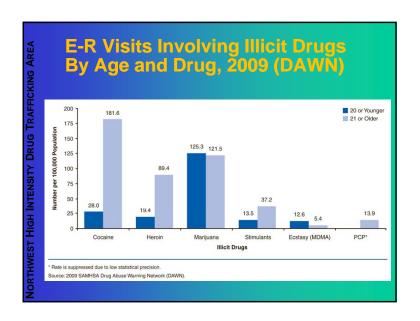


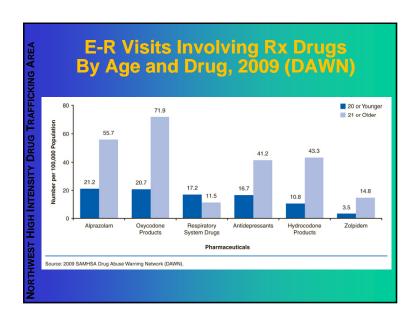


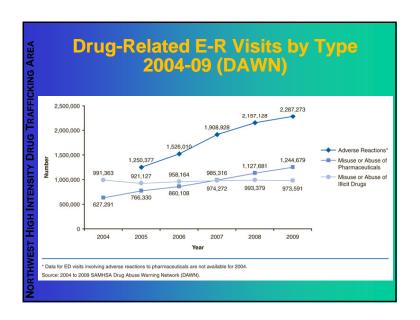


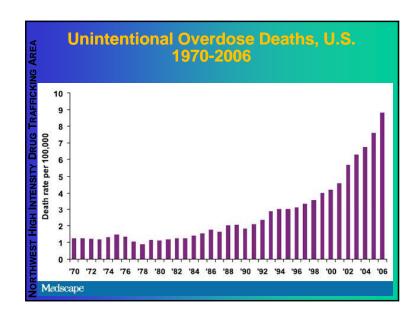


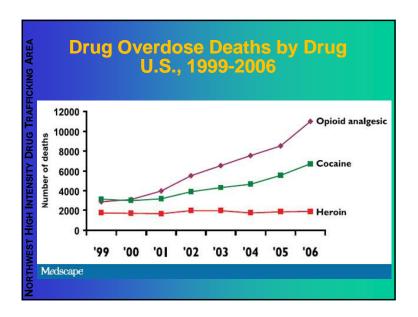


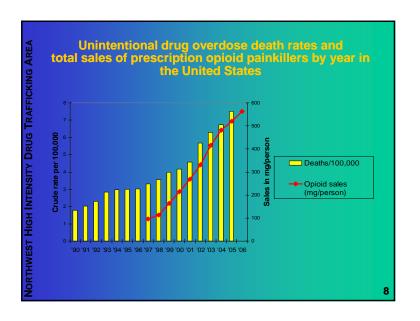






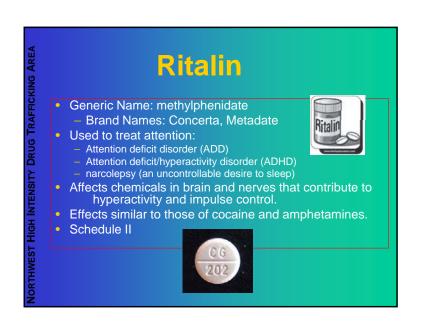








Stimulants • Caffeine: Cocaine, Methamphetamine, Ecstasy, Ritalin, Adderal, Ephedra (Ma Huang) • Vary in half-life -- initial dose intensity is similar, with differences in duration -- rapid development of tolerance and high risk for dependence, bingeing • Euphoria, pleasurable energy enhancement prompting physical activity, magnified sensory awareness, wakefulness, initial sense of improved cognition • Subsequent distractibility, altered perception and paranoia • Increased respiration and blood pressure, hyperthermia, cardiac and multiple organ stress • Sleep disruption/insomnia, tremors, seizures • Protracted withdrawal, severe craving and anhedonia • Reported long-term cognitive, emotional, memory deficits



Adderal Generic Name: amphetamine and dextroamphetamine - Brand Names: Adderal, Adderal XR Central nervous system stimulant Affects chemicals in the brain and nerves that contribute to hyperactivity and impulse control Schedule II ADDERAL XR



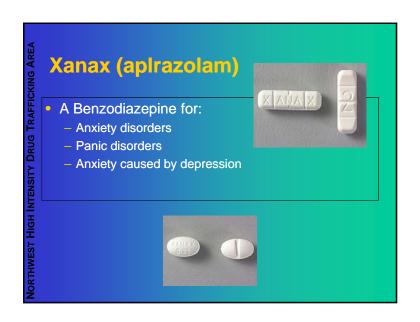
Misuse of Prescription Stimulants for the medications rose 86% among children ages 10 to 19.

• A recent study reveals a 76% increase in calls to Poison Control Centers regarding adolescent misuse of ADHD medications. • Calls reporting misuse rose from 330 in 1998 to **581** in 2005. During the same span, prescriptions

• Four fatalities were among the calls, and 42% of the teens involved in the calls had moderate to severe side-effects.

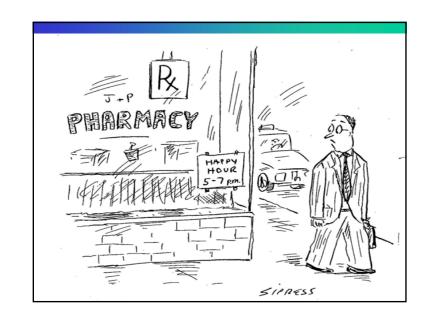
Sedatives

- - Known variously as hypnotics, anxiolytics, tranquilizers, soporifics
 - Central Nervous System depressants
 - Short to very long half-life, defining the timeframes for the development of tolerance and dependence
 - Severe withdrawal syndromes
 - Chronic addictive use can be VERY debilitating, with cognitive, organic and resiliency-related effects
 - Serves to weaken, accelerates aging, creates morbidity in the most vulnerable organ system/genetic history (liver, brain, pancreas, cardio-vascular, G.I., etc.)









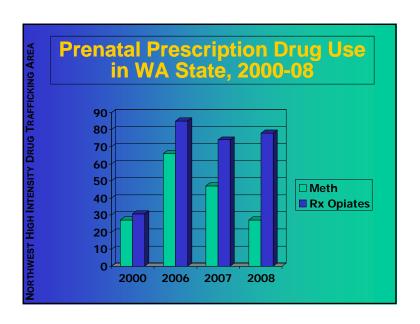
Treatment Considerations Effectiveness increases when the program draws on a variety of components • Length of treatment/program retention is important Basic treatment models: Medical (Disease Concept) Psychosocial (family, social network) Biopsychosocial (biological) In-patient, intensive out-patient, out-patient Cognitive-behavioral therapies for decision-making and behavior change Medications, psychiatric, health and dental care Pregnant/parenting women, sexual orientation, homelessness • Relapse prevention should include several strategies: Drug education Family and group therapies Self-help groups

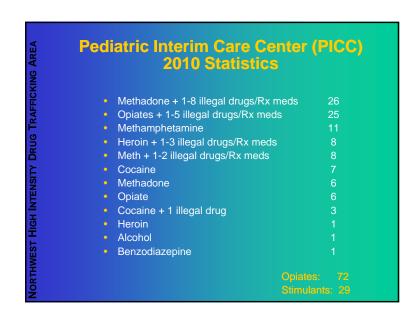
Medication Assisted Treatment Medications address several different elements of addiction Treat withdrawal symptoms Reduce craving during abstinence Prevent neurochemical action (antagonist) Replace neurochemical action (agonist)

Treatment Approaches Matrix Model Individualized Counseling Contingency Management Supportive-Expressive Psychotherapy Motivational Enhancement Therapy CBT: MRT, Seeking Safety Behavioral Therapy for Adolescents Multidimensional Family Therapy (MDFT) for Adolescents Relapse Prevention Medication-enhanced Interventions

Medications Available • Alcohol - Disulfiram (Antabuse) - Naltrexone (Revia, Vivitrol) - Acamprosate (Camprol) • Nicotine - Gum, patches, nasal sprays - Buprorion (Zyban, Wellbutrin) - Vaccine under trials • Cocaine - Disufiram (Antabuse) - Topirimate - Modanifil - 2 vaccines under trials • Amphetamine, Marijuana - Nothing yet

Opiate Medications • Methadone – agonist • Buprenorphine - partial agonist • Naltrexone - antagonist (ReVia, Vivitrol) - Opiate "blocker" – helps maintain abstinence from opiates - Detoxification from physical dependence on opiates - Vivitrol is an injectable, long lasting form of Naltrexone and is also approved for the treatment of alcohol dependence • Naloxone - antagonist (Narcan) - Treatment for acute opiate overdose • Clonidine (Catapres) - Not an agonist or antagonist but suppresses withdrawal symptoms







HWEST HIGH INTENSITY DRUG TRAFFICKING ARE

Prenatal Exposure to Stimulants

- Lethargic-Excessive Sleep
- Poor Suck and Swallow Coordination
- Sleep Apnea
- Poor Habituation



Availability and Accessibility 20.8% of survey respondents reported using at least one prescribed opioid medication during

the preceding 12 months

- 72% reported having leftover medication
- 71% reported keeping the medication
- Therefore, at least 10% of households are accumulating medications each year

ST HIGH INTENSITY DRUG TRAFFICKING ARE

Drugs in Combination

- Additive Effect: When two or more drugs are taken at the same time, and the action of one plus the action of the other results in an action as if just one drug had been given. An example would be a barbiturate and a benzodiazepine given together before surgery to relax a patient.
- Potentiation: Occurs when two drugs are taken an one of them intensifies the action of the other. An example would be an antihistamine given with an opiate to intensify its effect, lessening the amount of the opiate needed.
- Synergism: When two drugs with similar actions are taken together resulting in an exaggerated action, out of proportion to that of each drug taken separately. An example would be alcohol taken together with an opiate.

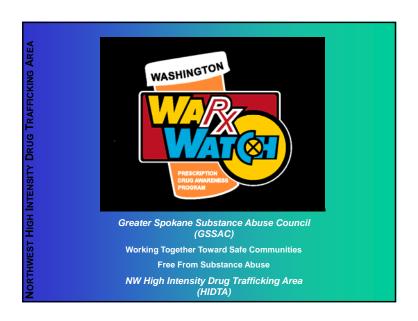
HIGH INTENSITY DRUG TRAFFICKIN

Preventing Rx Drug Abuse Among Teens

- Safeguard all drugs at home monitor quantities and control access
- Set clear rule for teens about all drug use, including not sharing medicine and always following medical advice and dosages
- Be a good role model by following these same rules with your own medicines
- Properly conceal and dispose of old or unused medicines
- Ask friends and family to safeguard their prescription drugs as well









Rx Watch Program Goals

- Designed to help stop Prescription Drug Abuse
 - With strong collaboration with Law Enforcement,
 Treatment, and the Medical Community
 - Community Presentations that build awareness and educate the public on the dangers of Rx drug abuse
 - Designed for Washington State

Contact Information/Resources Tel: 206.352.3603 sfreng@nw.hidta.org "M-Files": www.mfiles.org ONDCP: whitehousedrugpolicy.gov

