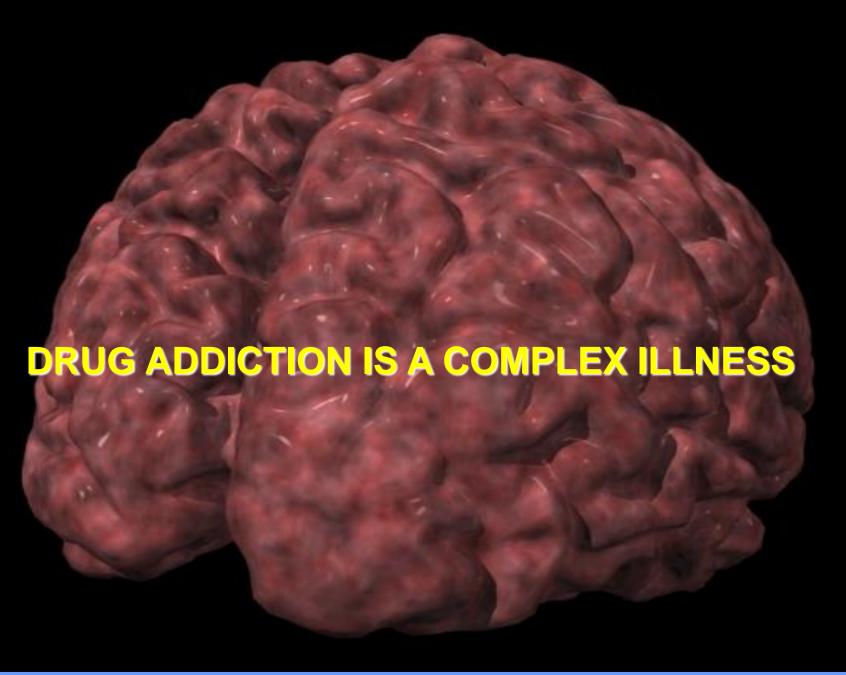
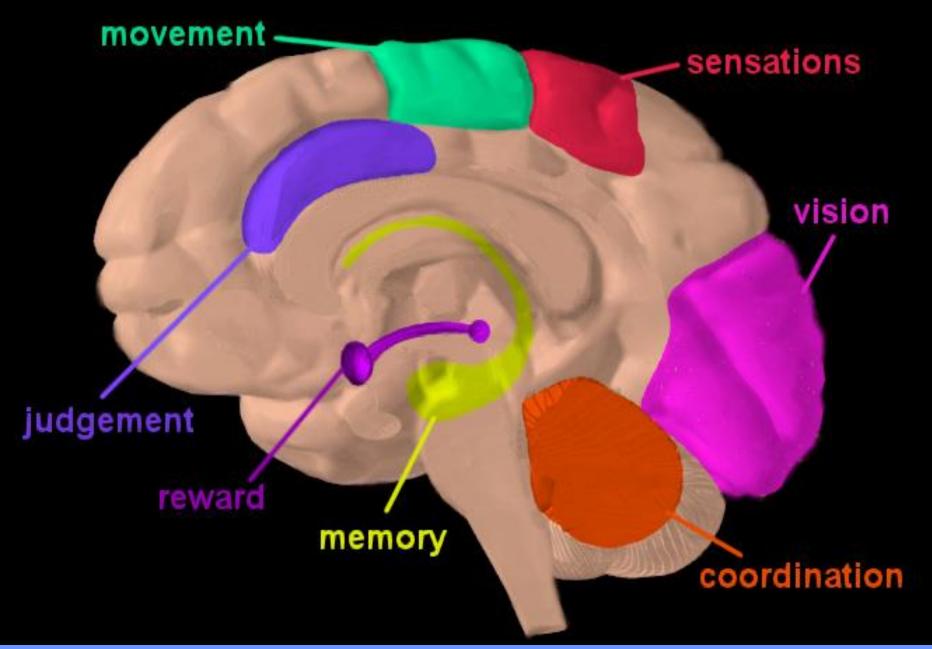
Understanding Drug Abuse and Addiction: What Science Says

Developed by the National Institute on Drug Abuse (NIDA) National Institutes of Health Bethesda, Maryland

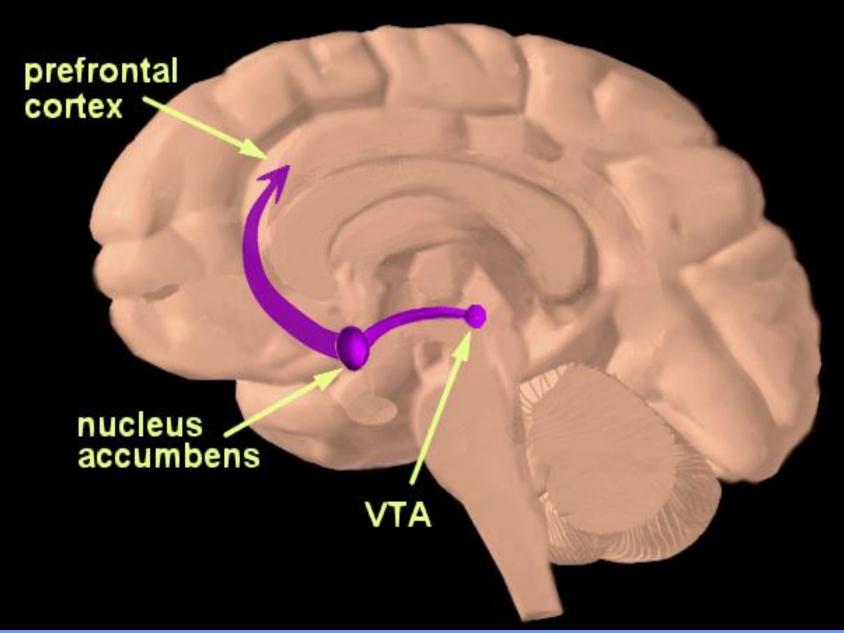




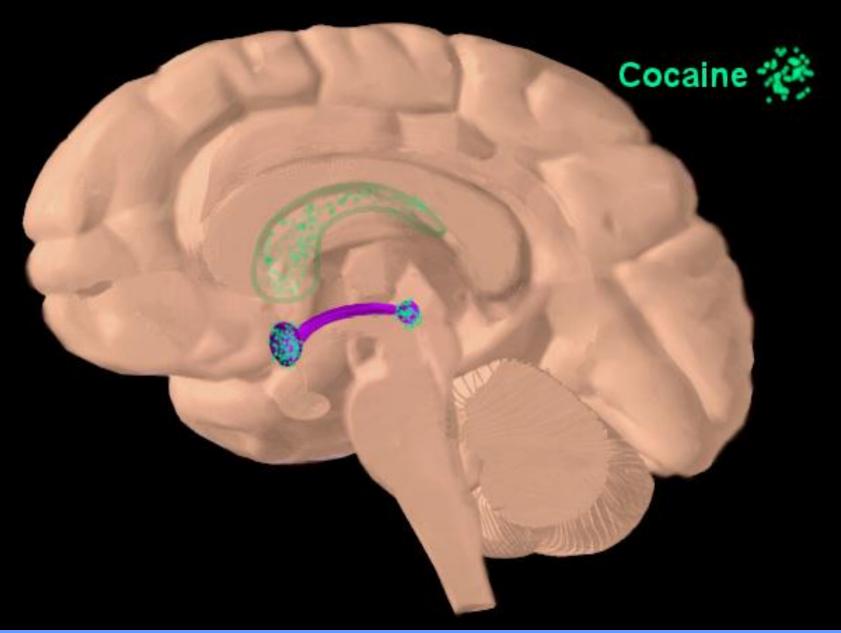




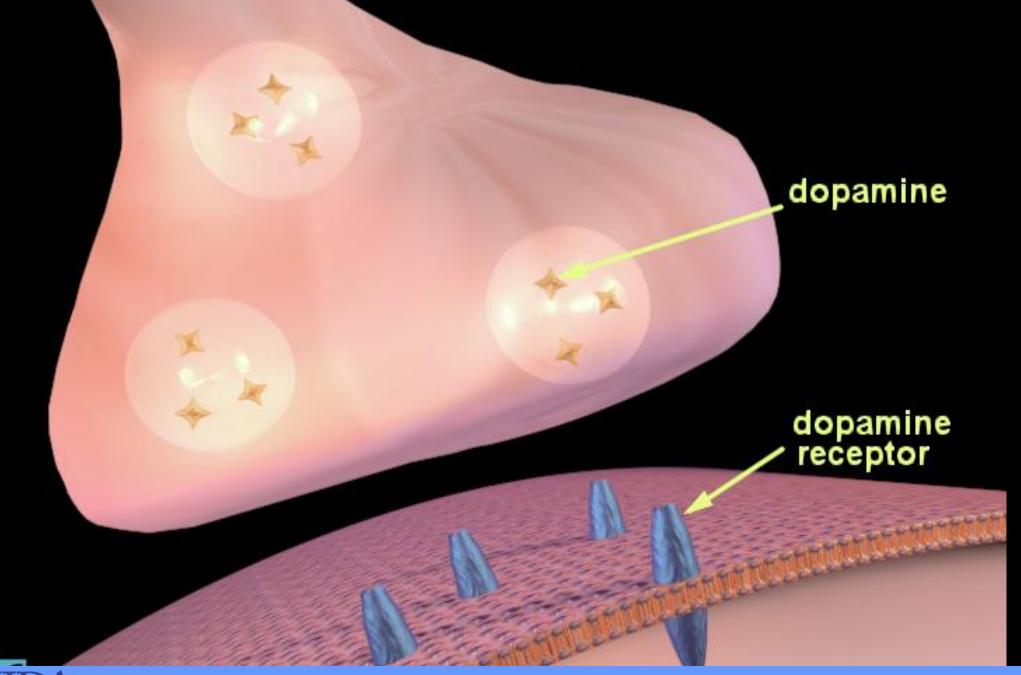


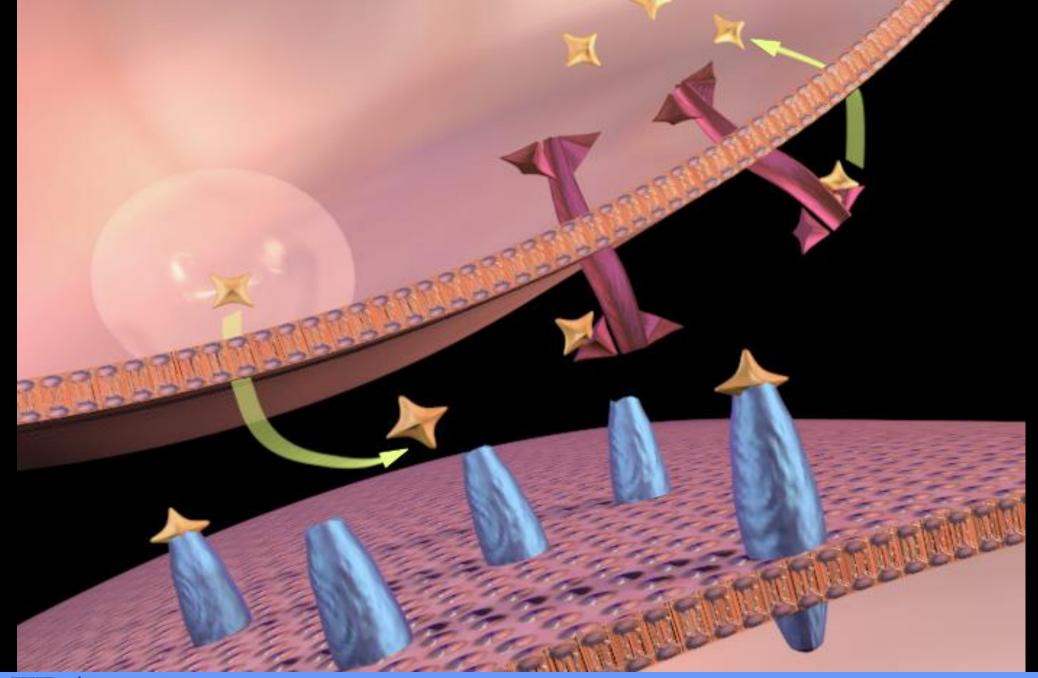


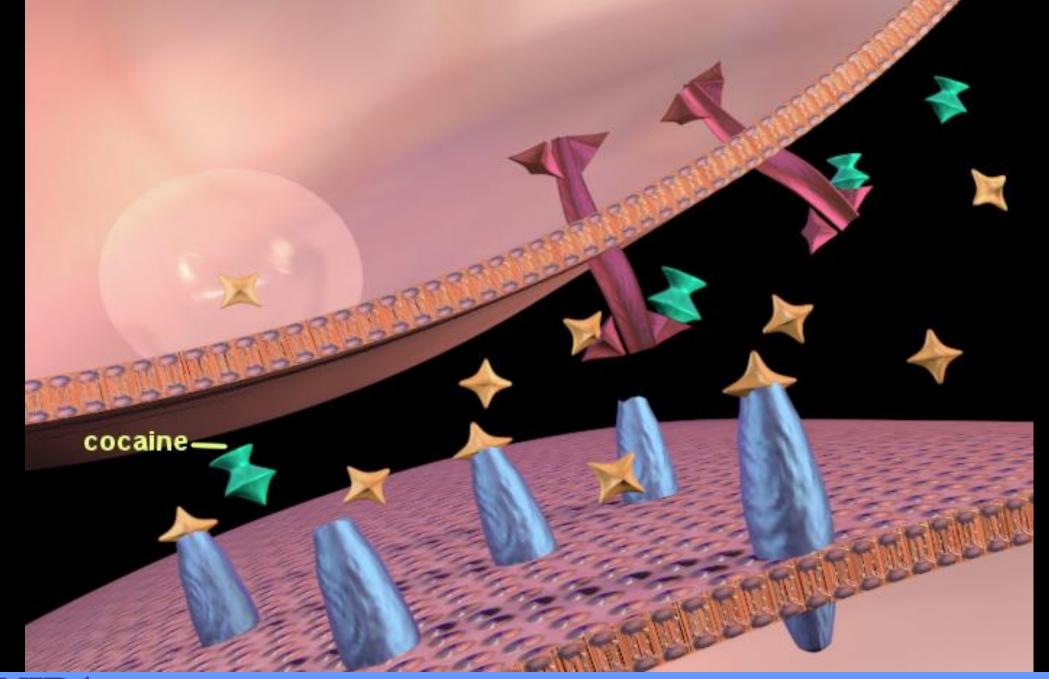














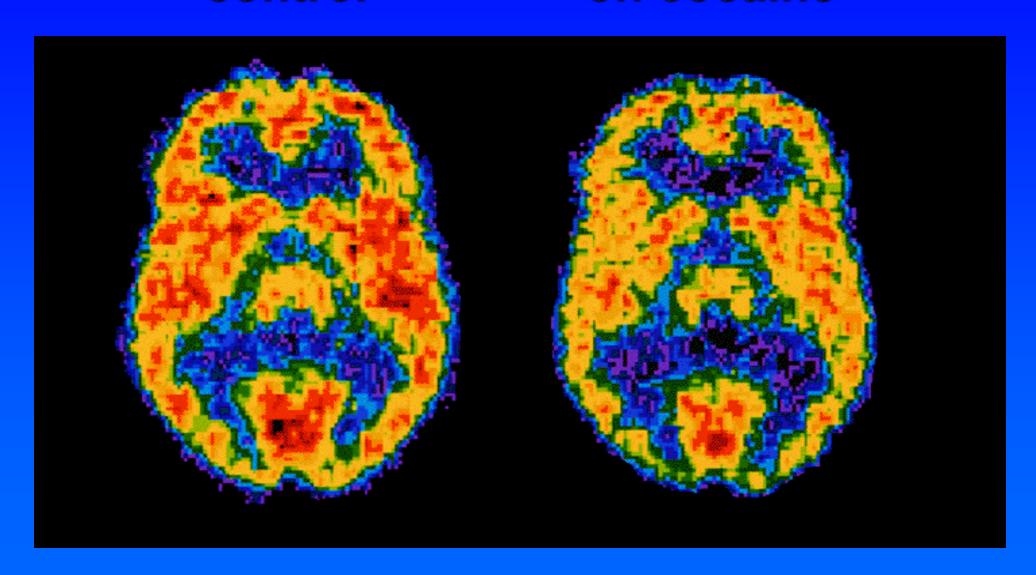
Positron Emission Tomography (PET)



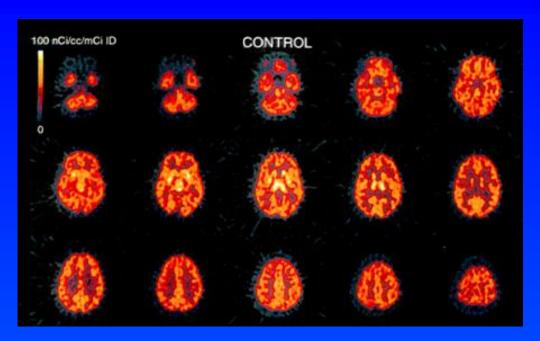


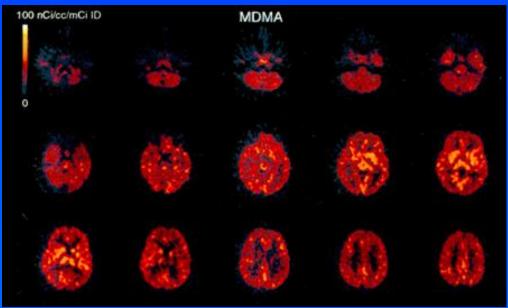
control

on cocaine

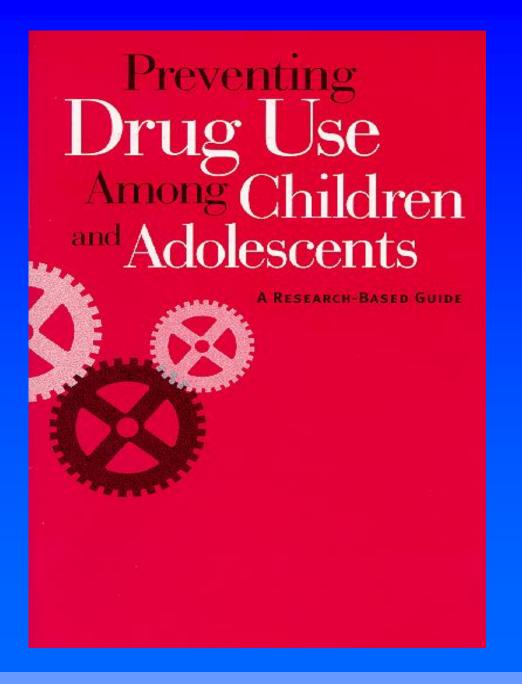














Prevention Programs Should Reduce Risk Factors

- ineffective parenting
- chaotic home environment
- lack of mutual attachments/nurturing
- inappropriate behavior in the classroom
- failure in school performance
- poor social coping skills
- affiliations with deviant peers
- perceptions of approval of drug-using behaviors in the school, peer, and community environments



Enhance Protective Factors

- strong family bonds
- parental monitoring
- parental involvement
- success in school performance
- prosocial institutions (e.g. such as family, school, and religious organizations)
- conventional norms about drug use



. . Target all Forms of Drug Use



... and be Culturally Sensitive



Include Interactive Skills-Based Training

- Resist drugs
- Strengthen personal commitments against drug use
- Increase social competency
- Reinforce attitudes against drug use



Prevention Programs Should be. . . . Family-Focused

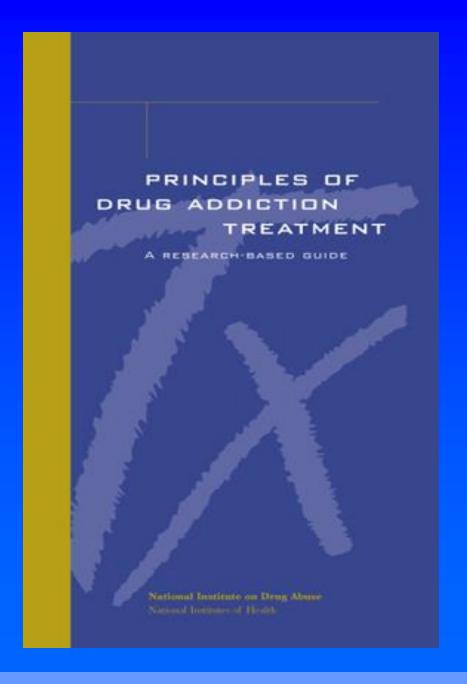
- Provides greater impact than parentonly or child-only programs
- Include at each stage of development
- Involve effective parenting skills



Involve Communities and Schools

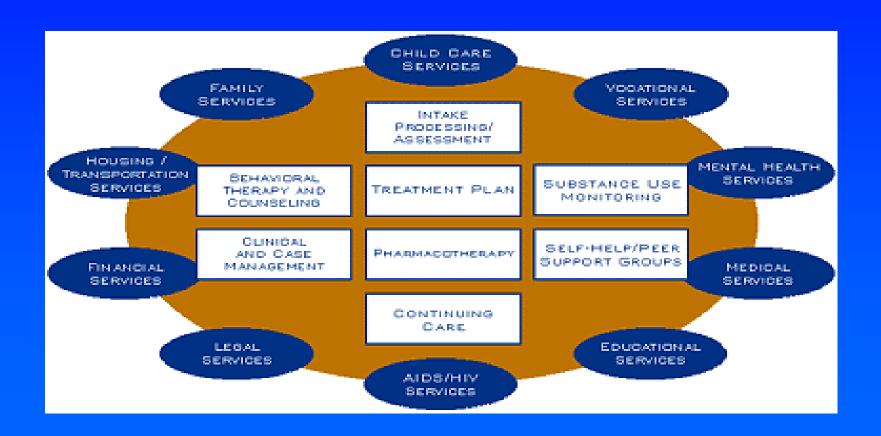
- Media campaigns and policy changes
- Strengthen norms against drug use
- Address specific nature of local drug problem







Components of Comprehensive Drug Addiction Treatment







Matching Patients to Individual Needs

- No single treatment is appropriate for all individuals
- Effective treatment attends to multiple needs of the individual, not just his/her drug use
- Treatment must address medical, psychological, social, vocational, and legal problems





Duration of Treatment

- Depends on patient problems/needs
- Less than 90 days is of limited/no effectiveness for residential/outpatient setting
- A minimum of 12 months is required for methadone maintenance
- Longer treatment is often indicated

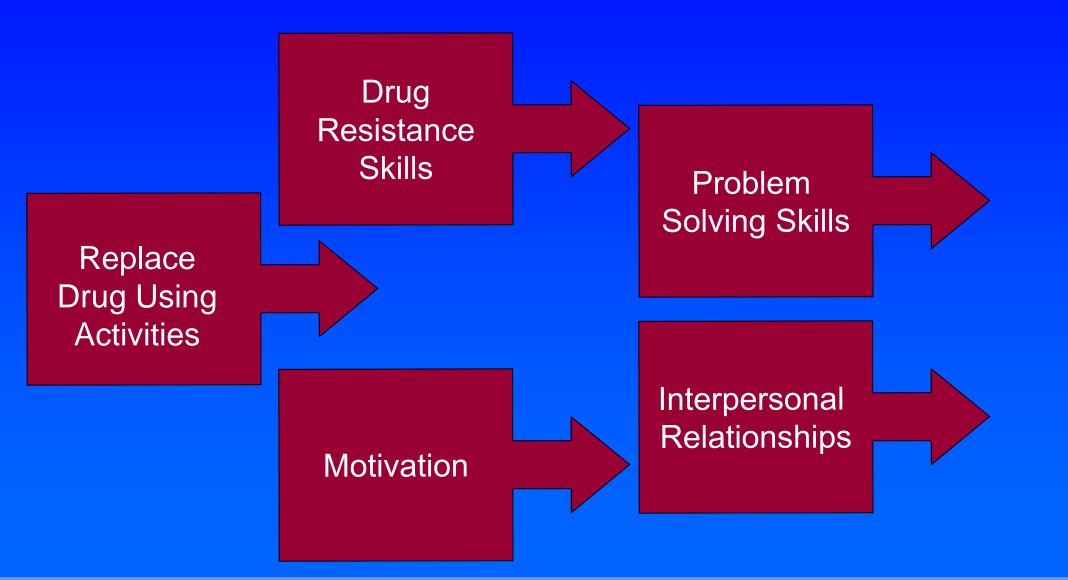


Medical Detoxification

- Detoxification safely manages the physical symptoms of withdrawal
- Only first stage of addiction treatment
- Alone, does little to change long-term drug use



Counseling and Other Behavioral Therapies







Medications for Drug Addiction

- Methadone
- LAAM
- Naltrexone
- Nicotine Replacement
 - patches
 - gum
 - buproprion





Motivation to Enter/ Sustain Treatment

- Effective treatment need not be voluntary
- Sanctions/enticements (family, employer, criminal justice system) can increase treatment entry/retention
- Treatment outcomes are similar for those who enter treatment under legal pressure vs voluntary





HIV/AIDS, Hepatitis and Other Infectious Diseases

- Drug treatment is disease prevention
- Drug treatment reduces likelihood of HIV infection by 6 fold in injecting drug users
- Drug treatment presents opportunities for screening, counseling, and referral





Effectiveness of Treatment

- Goal of treatment is to return to productive functioning
- Treatment reduced drug use by 40-60%
- Treatment reduces crime by 40-60%
- Treatment increases employment prospects by 40%
- Drug treatment is as successful as treatment of diabetes, asthma, and hypertension





Self-Help and Drug Addiction Treatment

- Complements and extends treatment efforts
- Most commonly used models include 12-Step (AA, NA) and Smart Recovery
- Most treatment programs encourage self-help participation during/after treatment





Cost-Effectiveness of Drug Treatment

- Treatment is less expensive than not treating or incarceration (1 yr methadone maintenance = \$4,700 vs. \$18,400 for imprisonment)
- Every \$1 invested in treatment yields up to \$7 in reduced crime-related costs
- Savings can exceed costs by 12:1 when health care costs are included
- Reduced interpersonal conflicts
- Improved workplace productivity
- Fewer drug-related accidents



For More Information

NIDA Public Information Office:
301-443-1124
Or
www.nida.nih.gov
www.drug abuse.gov

National Clearinghouse on Alcohol and Drug Information (NCADI): 1-800-729-6686

