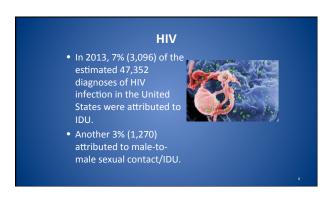


Injection drug use has been responsible for more than one-third of all adult and adolescent AIDS cases reported in the U.S. since the beginning of the AIDS epidemic.
 Non-injection drug users who trade sex for drugs or who engage in unprotected sex while under the influence of drugs also increase their risk of infection.



- The high-risk practice of sharing syringes and other injection equipment is common among people who inject drugs (PWID).
- HIV (and Hep B/C) can be transmitted by sharing needles, syringes or other injection equipment (e.g., cookers, rinse water, cotton) that were used by a person living with HIV.

- Young people (aged 15-30 years) who inject drugs have many of the same risk factors for HIV found in older PWID, including a significant risk of sexual HIV transmission among:
 - MSM who inject drugs
 - PWID who exchange sex for money or drugs

Prevention Interventions for PWID include both:

- Sexual risk reduction
- Injection risk reduction

Stigma

- Stigma related to drug use may prevent PWID from seeking HIV testing, care and treatment.
- Studies have shown that people treated for substance abuse are more likely to:
 - Start and remain in HIV medical care
 - Adopt safer behaviors
 - Take their HIV medications correctly than those not receiving such treatment

Hepatitis

 Hepatitis B (HBV) and Hepatitis C (HCV) are viral diseases that destroy liver cells and can lead to cirrhosis and liver cancer.



Research Shows:

- People can become infected with HBV through sexual intercourse with an infected person or through exposure to an infected person's blood, as may happen when IDUs share needles.
- Blood transfusion and needle sharing are the most common routes of infection with HCV.

- NIDA-supported research shows the risk of infection by HBV and HCV is extremely high in the first year after beginning injection drug use
- One study found overall HCV and HBV prevalence of 76.9 percent and 65.7 percent, respectively, in a group who had been injecting drugs for 6 years or less.

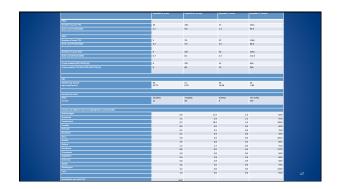
Impacted Populations:

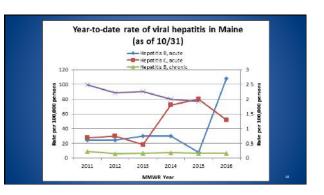
- Drug user population is much younger than in the past
- Relatively even split between males and females.
- As a result, we are seeing <u>more</u> women of child bearing age with chronic hepatitis C, raising the risk of mother-to-infant transmission.

Impact on Children:

- There is no treatment or post-exposure prophylaxis (PEP) for HCV.
- Infected babies are monitored until they reach an age where treatment can occur.
- This age group (18-30) is largely vaccinated for HBV, though that is also a risk.
- Younger a person is when infected, greater likelihood they will go on to have a chronic HBV infection.

Maine's Hepatitis story...





Take home messages from our Viral Hepatitis Program:

- There is <u>high concern</u> for infection with HBV and HCV
- Both viruses are incredibly resilient, heat resistant and are spread efficiently by contaminated injection equipment or even the drups themselves
- Study shows transmission risk is highest with usage of contaminated cotton filters and water, rather than any other injection equipment.

Transmission:

- Hepatitis B is <u>100 times more infectious</u> than HIV, and in addition to blood-to-blood transmission, is efficiently spread via sexual activity.
- Hepatitis C is exclusively spread via blood, and thus sexual risk is low.
 - Unless there is a co-infection with HIV or other STIs

Both HBV and HCV can survive outside of the body for up to a week, and up to 3 months in closed containers.

• HBV is preventable by vaccination.

Tuberculosis

 Tuberculosis (TB) is transmitted from person to person by airborne bacteria, and is most prevalent in crowded low-income areas with substandard health conditions



Drug users are <u>two to six times</u> more likely to contract TB than nonusers.

 IDUs are more likely to develop the disease in multiple organs and sites, rather than only in the lungs.

Other Infectious Diseases Associated with Drug Use

 Drug users have a high incidence not only of HIV/ AIDS but also of other sexually transmitted diseases including syphilis, chlamydia, gonorrhea and genital herpes.





