Injection Drug Users

The most commonly injected illicit drugs in the United States are cocaine, amphetamines, heroin, and other opiates (AVERT). In 2009, it was estimated that 2.6% of persons in the United States had ever used illicit injection drugs and that 0.3% or approximately one million persons had used illicit injection drugs in the past year (Lansky et al., 2012).

Nationally, HIV incidence among injection drug users (IDUs) has decreased by approximately 80% since the late 1980s, however, the decline has slowed in recent years and injection drug use remains an important route of HIV transmission in the U.S., particularly among women (CDC, 2013c; Hall, Song, Rhodes, and et al., 2008). Among females aged ≥13 years living with HIV at year-end 2010, 25% of infections were due to injection drug use (CDC, 2013a). At the end of 2010, among males aged ≥13 years living with HIV, 13% of infections were attributed to injection drug use and 7% to male-to-male sexual contact and injection drug use (CDC, 2013a).

IDUs are at increased risk of acquiring HIV due to a number of behaviors including sharing needles or drug preparation equipment and increased likelihood of engaging in risky sexual behaviors (U.S. Department of Health and Human Services). Some illicit drugs, like methamphetamine, can dry out mucosal tissues, leading to small tears and cuts during sex which can increase risk of HIV transmission (CDC).

Data collected in 2009 from 20 U.S. cities that have high rates of HIV infection found that IDUs reported high levels of risky practices, including sharing syringes (34%) and sharing of other injection equipment (58%) (CDC, 2012). Unprotected vaginal sexual contact in the past 12 months was reported by 69% of respondents and 23% reported unprotected heterosexual anal intercourse (CDC, 2012).

In addition to increased HIV transmission risk, use of illicit drugs can negatively affect HIV treatment efficacy and can reduce compliance with HIV treatment regimens (U.S. Department of Health and Human Services).

HIV Disease Diagnoses

In Illinois, from 2009–2013, injection drug use was a transmission risk factor for 4.2% (n=387) of newly diagnosed individuals with an identified transmission risk category.* Individuals who identified as both men who have sex with men (MSM) and IDUs accounted for an additional 2.2% of new diagnoses of HIV disease during this five-year period (n=203).**

Since 2000, the number of HIV infections diagnosed among IDUs in Illinois has declined. In 2013, 65 new HIV disease diagnoses were attributed to injection drug use compared to 684 in 2000 (Figure 6). The reasons for this decline are not well documented but may include decreased viral load among HIV positive IDUs due to effective treatment and the impact of prevention programs such as clean needle exchanges (Gilber, Buxton, and Tupper, 2011; North American Syringe Exchange Network).

Geography

The majority of HIV diagnoses among IDUs from 2009–2013 were in Chicago (n=336) and Cook County (n=74). Outside of Chicago and the collar counties, less than 40 diagnoses per region attributable to injection drug use occurred over this five-year period.

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*9,002 new HIV diagnoses were reported from 2009–2013; 1,955 had no risk category reported
**Subsequent numbers for IDUs in this section include IDU+MSM
Age at Diagnosis

Most IDUs were diagnosed with HIV disease when ≥30 years of age. Almost a third of persons diagnosed from 2009–2013 with injection drug use as the transmission risk category were ≥50 years at time of diagnosis.

Sex

There were three times more males than females diagnosed with HIV disease in Illinois who identified injection drug use as a risk factor from 2009–2013. Among males, the highest number of new HIV disease diagnoses were among adults 40–49 years old. Among females, the highest number of new HIV disease diagnoses were identified among adults 50–59 years.

Race/Ethnicity

Among persons newly diagnosed with HIV disease in Illinois from 2009–2013 who identified injection drug use as a transmission risk factor, 47% were non-Hispanic (NH) black and 25% were NH white. NH blacks accounted for 14.2% of the total population of Illinois in 2013 (U. S. Census Bureau, 2014).
Persons Living with HIV Disease
At the end of 2013, there were 5,785 persons living with diagnosed HIV disease in Illinois with injection drug use as the transmission risk category. The declining number of IDUs living with HIV disease, despite new HIV diagnoses, indicates lower survival in this risk group. Health care providers may be more likely to defer HIV treatment for IDUs which can contribute to lower survival rates (Westergaard, Ambrose, Mehta, and Kirk, 2012). Significant Hepatitis C co-infection may also be a contributing factor to higher mortality rates among IDUs (May et al., 2015).

Mortality
Deaths among HIV positive injection drug users have declined since 2000. However, this decline has been lower when compared to other risk groups, such as MSM. Older age at diagnosis among IDUs (Figure 3) may negatively affect survival rates (Costagliola, 2014).
REFERENCES


