Management of the Injection Drug User with Serious Infections

David Chansolme, MD November 15, 2018

Overview

- Epidemiology
- Risk factors
- Spectrum of infections
- Barriers to administering care

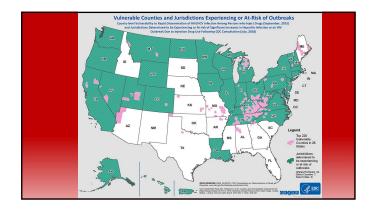
Prognosis

Scope of the Problem

- 13 million Injection Drug Users (IDU) worldwide
- 1.7 million IDU living with HIV
- 67% of IDU have Hepatitis C

www.who.int/hiv/topics/idu/about/en. Accessed 11-11-18

<section-header>



Human Immunodeficiency Virus

2



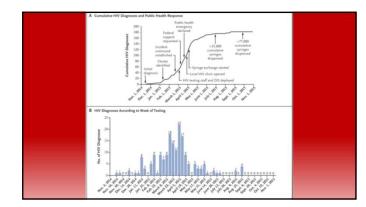
Scott County, Indiana

- \bullet Scott County population of ~15,000 adults
- Only 5 HIV infections from 2004 to 2013
- 11 diagnosed in 3 months in 2014 -2015 • All had injected oxymorphone

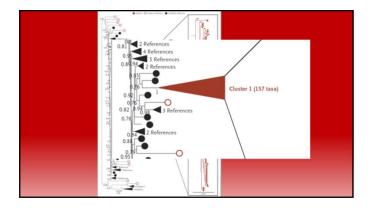


Injection practices

• Me and the lady [syringe exchange program counselor] had a miscommunication. She was like, "How many time do you do a pill a day?" And, I was like, "well, 5 or 6." She was thinking 5 or 6 times I'd stick myself. And see, she didn't ask me how many times I stick myself. She asked me how many pills I do a day. And, so that worked out a lot different when she figured [multiple injections per injection episode], you know, ok 5 times 7 is 35 rigs. You know, 35 needles.







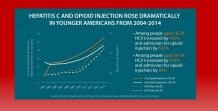


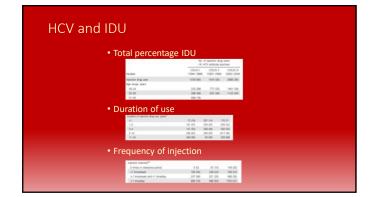
Hepatitis C Virus

HCV and IDU

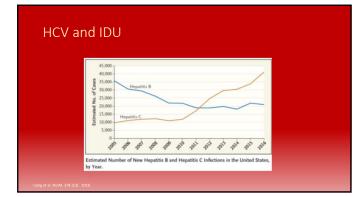
 IDU most common risk factor for HCV
 70% of all infections are IDU

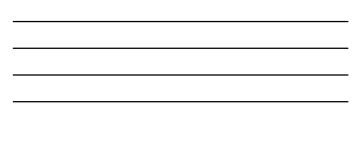
 More common in young people



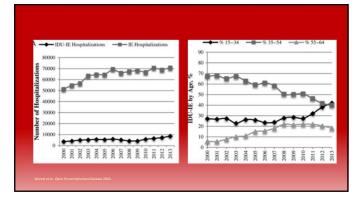








Endocarditis







Endocarditis

- Treatment is several weeks of intravenous antibiotics
- Challenges of surgery
 Rehab
 Recovery
 Counseling
 Redo?

TREATMENT

Treatment Options

- Inpatient intravenous antibiotic use
- Outpatient intravenous antimicrobial therapy
- Oral therapy
- Extended duration intravenous therapy
- Medical Respite Care

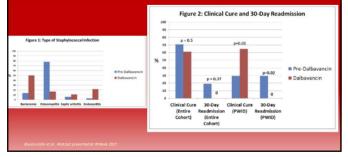
Treatment options – Inpatient IV rx

- Expensive (\$40,000 or more)
- Inconvenient
- Restrictive



Resource intensive

Treatment Options – extended duration IV rx





Treatment Options - OPAT



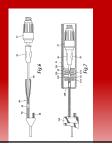
Perceived barriers

- Compliance
- Mortality
- Complications
- Enticement to use

Treatment Options – OPAT

Tamper resistant PICC lines





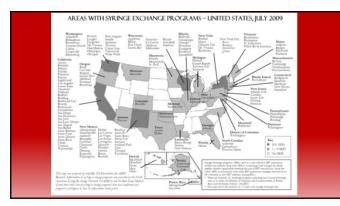
Treatment Options – Oral Therapy

- Combination of appropriate drug for the appropriate target
- High bioavailability
- Consider site of infection

Treatment Options - OPAT

- Substance Abuse counseling
- Behavioral Assessment
- Mental health comorbidities
- Opioid dependence







Questions???????