

Intersecting Public Health Issues in the City of Pittsburgh Meeting the Growing Challenges: HIV, STIs, Hepatitis C & Substance Misuse

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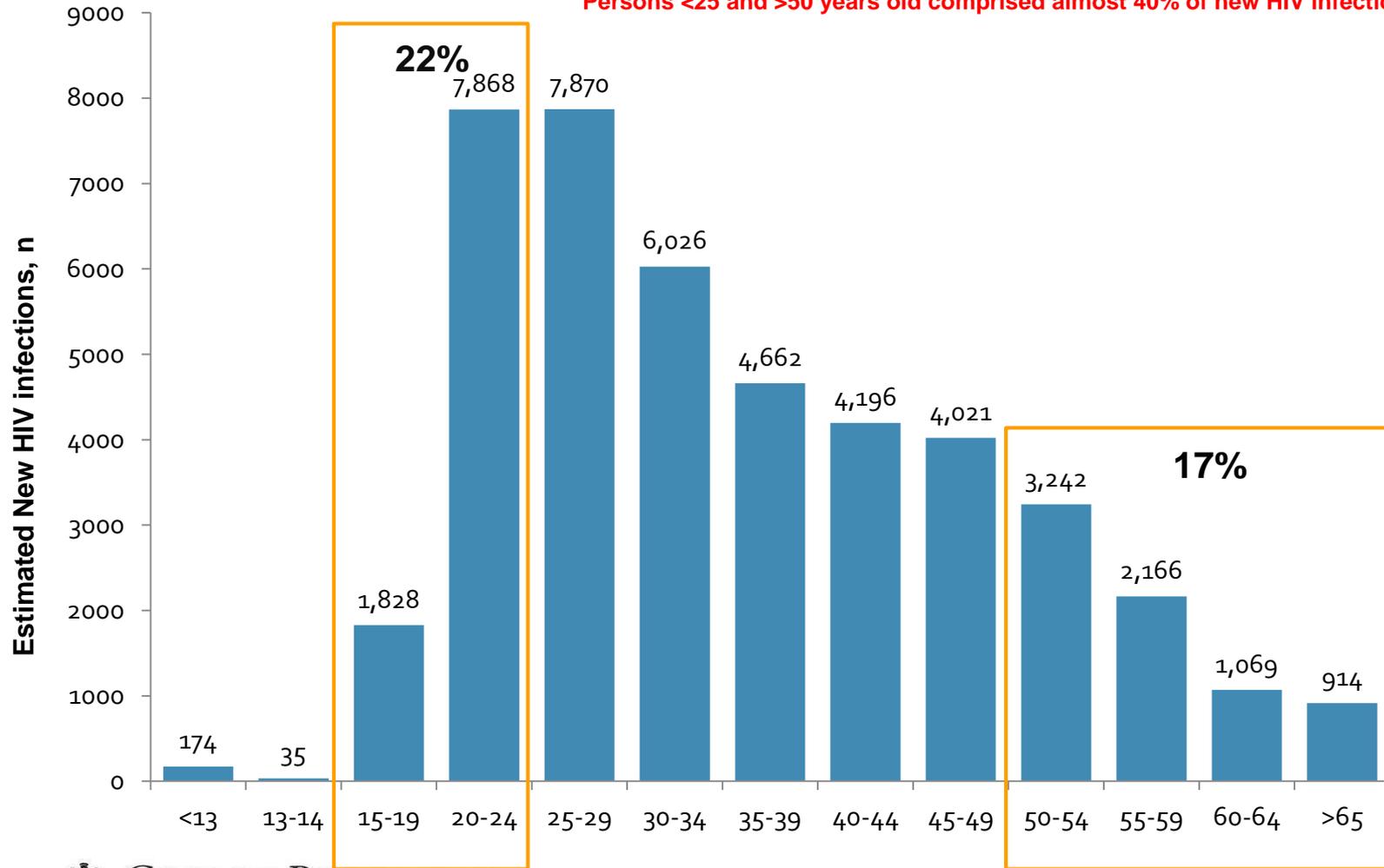
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2018 City of Pittsburgh HIV Commission

Estimated New HIV Infections in the US, by Age, 2014

Centers for Disease Control and Prevention. *HIV Surveillance Report, 2014*; vol. 26. <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published November 2015. Accessed April 13, 2016.

Persons <25 and >50 years old comprised almost 40% of new HIV infections in 2014.



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2015 National HIV/AIDS Strategy

Now referred to as “National Priorities”



Reducing new HIV infections



Improving access to care and health outcomes



Reducing HIV-related health disparities



Achieving a more coordinated national response



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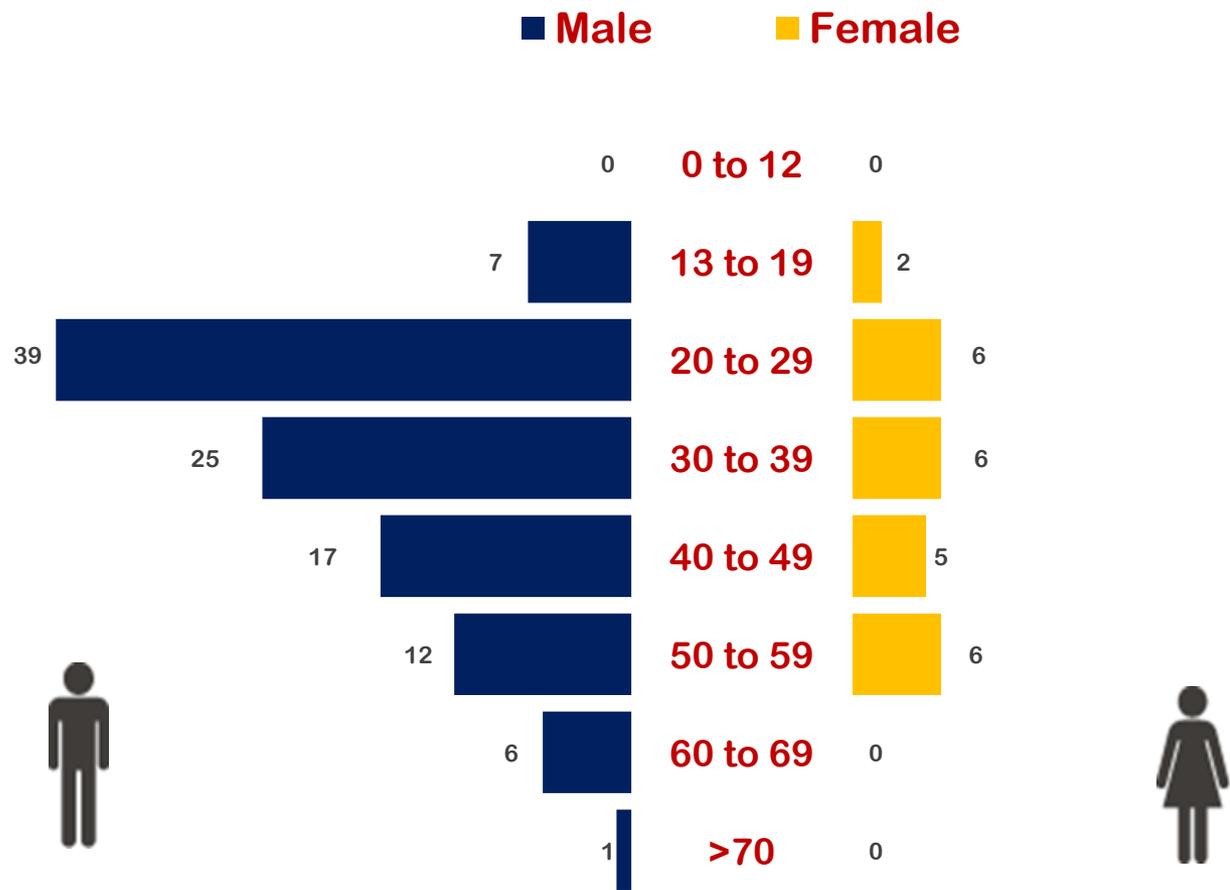
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Cumulative Number of HIV Cases Pennsylvania 1980-2015

| COUNTY | CUMULATIVE CASES |
|--------------|------------------|
| PHILADELPHIA | 31,544 |
| ALLEGHENY | 4,744 |
| DELAWARE | 2,944 |
| MONTGOMERY | 1,864 |
| DAUPHIN | 1,716 |
| BERKS | 1,622 |
| LEHIGH | 1,549 |
| LANCASTER | 1,410 |
| BUCKS | 1,373 |
| YORK | 1,234 |

Source: Hacker, K. 2016, Allegheny County Health Department

HIV Cases by Age and Sex , Allegheny County 2014, (AGHD)



Mode of Transmission- New HIV Cases SW Pennsylvania 2015 (AGHD)

| MODE | N | % |
|---------------------------------|----------|----------|
| Men who have sex with men (MSM) | 102 | 59% |
| Injection Drug Users (IDU) | 9 | 5% |
| MSM + IDU | 4 | 2% |
| Heterosexual | 18 | 10% |
| Undetermined | 39 | 23% |

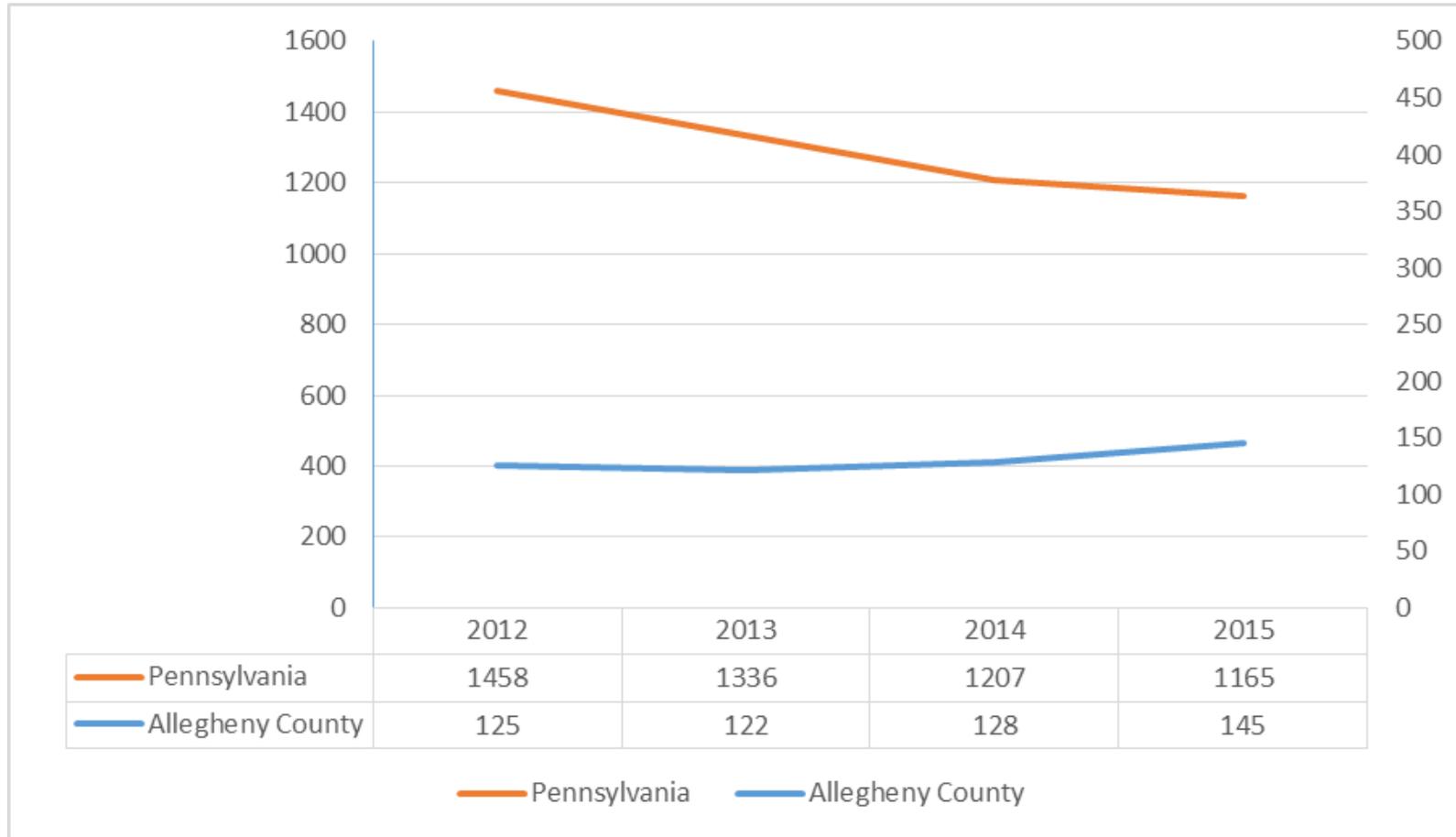


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New HIV Cases 2012-2015

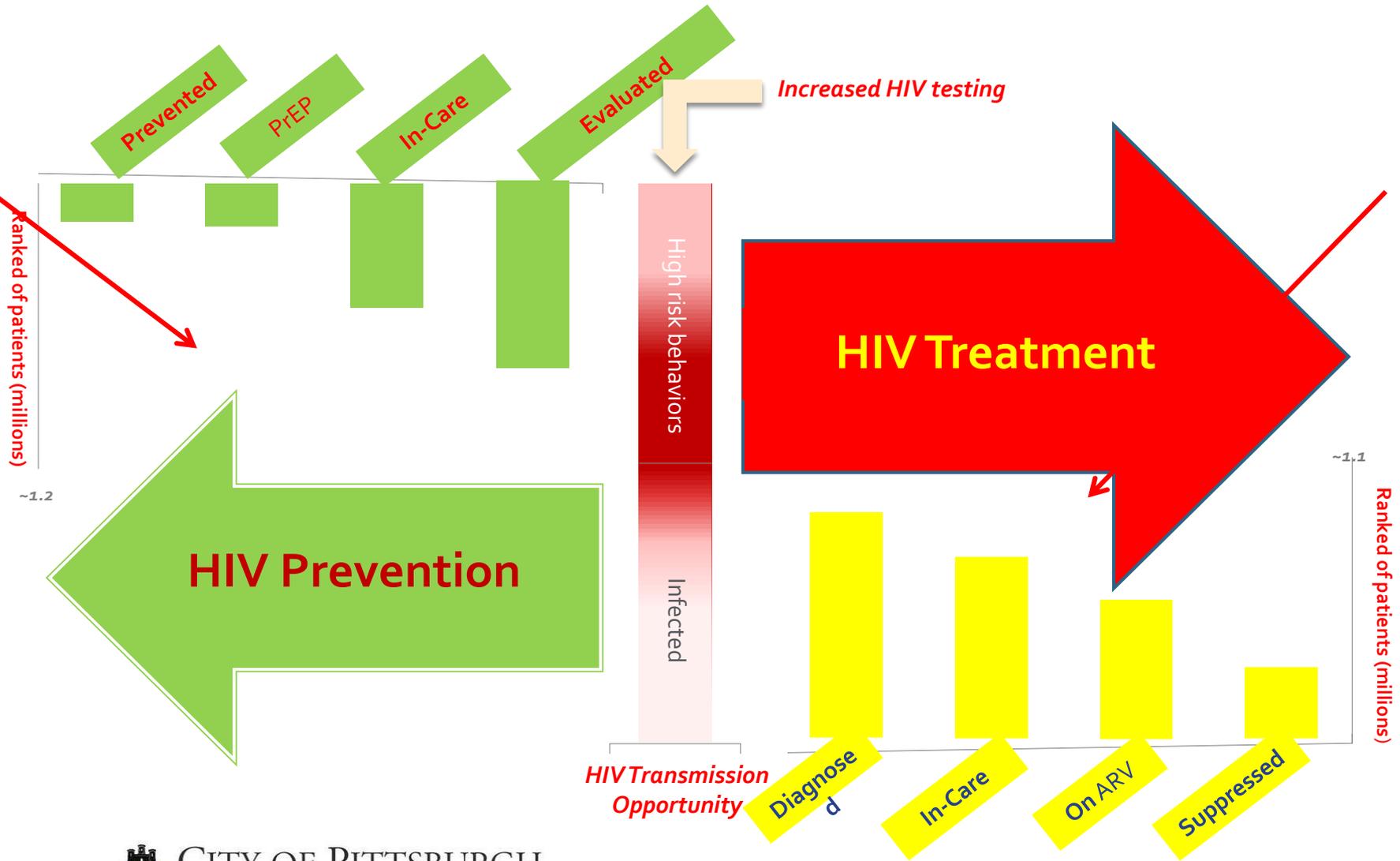
Allegheny County/Pennsylvania (ACHD)



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Redefining the HIV Cascade of Care



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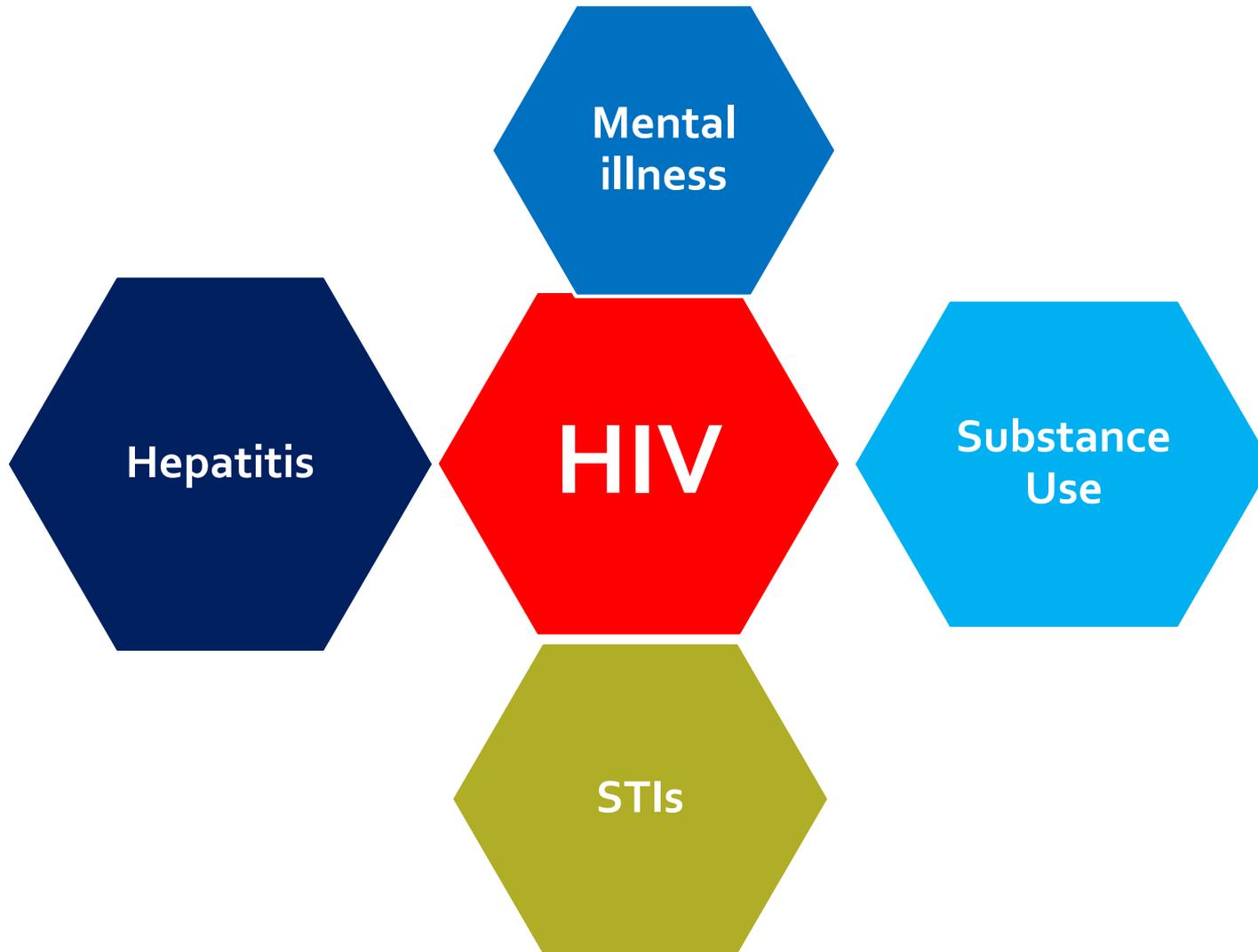
High

HIV Transmission Risk

Low

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Intersecting Public Health Issues



2018 HIV Commission Priorities

- Sector engagement as outlined in Ordinance, Chapter 179C
 - Health care
 - Education
 - Business
- Increasing HIV Commission expertise and diversification related to intersecting and co-occurring diseases
- Collaboration with other City of Pittsburgh programs and stakeholders
- Provision of quarterly update summaries on specific intersecting public health topics and discussion of challenges and opportunities for:
 - Human and fiscal resources
 - Outreach and engagement
 - Development of tailored intervention(s)
- Providing information upon requested or as issues emerge to:
 - Disseminate successes and concerns related to specific city areas
 - Provide knowledge and expertise to develop of new policies, programs
 - Increase communication and collaboration on addressing city needs



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2018 HIV Commission Members

Linda Frank, PhD, MSN, ACRN, FAAN, Chair

Antoine Douaihy, MD. Vice-Chair

Mary Gallagher, Secretary

Rev C. Foster, Treasurer

Amesh Adalj, MD

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Scott Peterman

Lyndsey Sickler

Margaret Taylor, MPH

Gary Van Horn

Harold Weinsensfeld, MD

Darren Whitfield, PhD, MSW



HIV/STI/Hep C Drivers

- Success of antiretroviral treatment
 - Delays progression, improves quality of life, prevents complications, opportunistic diseases, neurocognitive complications
 - Treatment as prevention
- Pre-exposure prophylaxis (PreP)
 - Shown to be effective in reducing transmission with daily dosing. At IAS, new data suggests that less than daily dosing can also be effective
 - IAS 2015: recommendation that drug users, including active drug users have access to PreP
- Increase rates of STIs particularly among MSM
- New treatment for Hep C that are effective
 - New cases of HepC; more easily transmitted than HIV
 - New requirements for screening in primary care

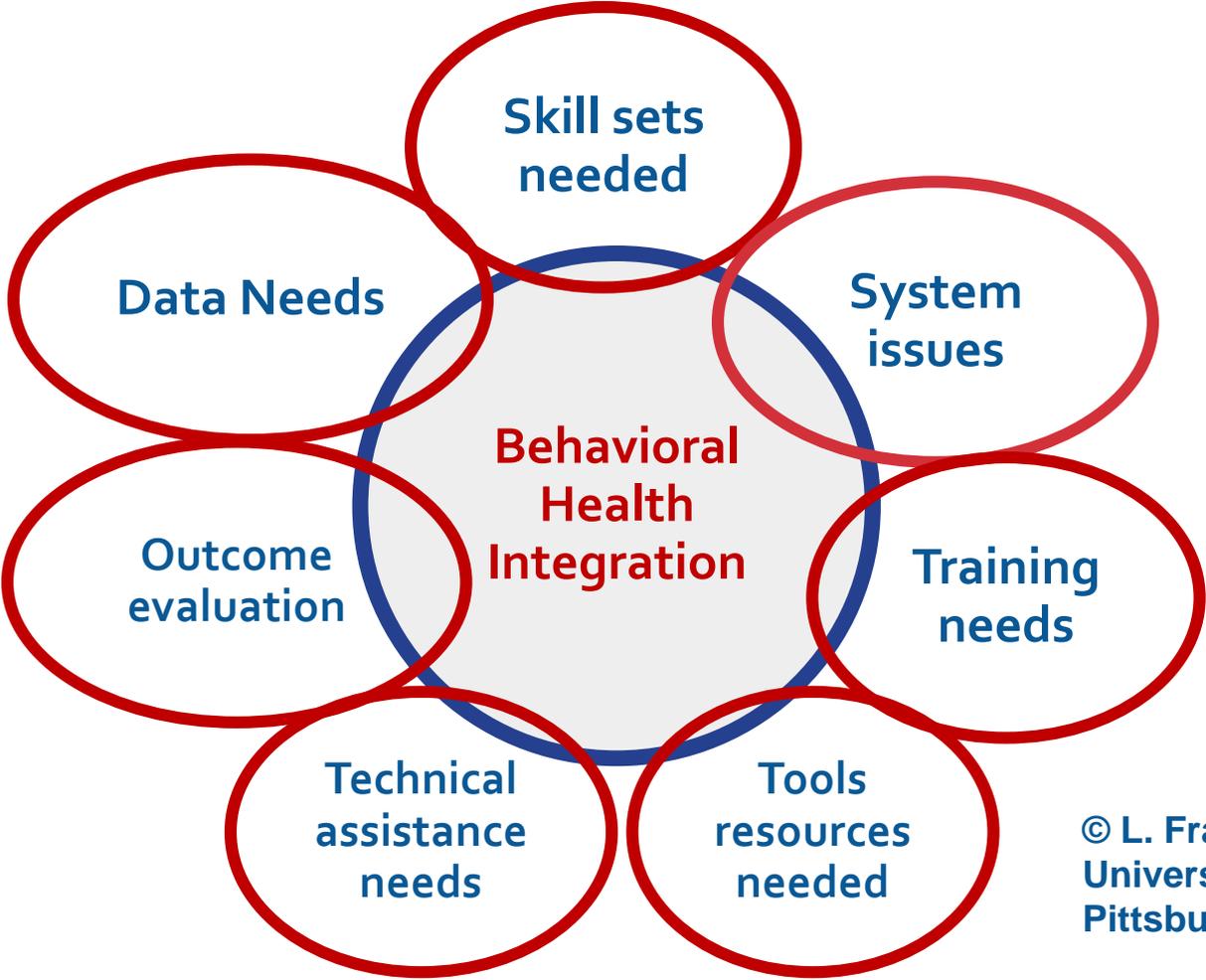


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Behavioral Health Integration Model



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Pittsburgh 2014



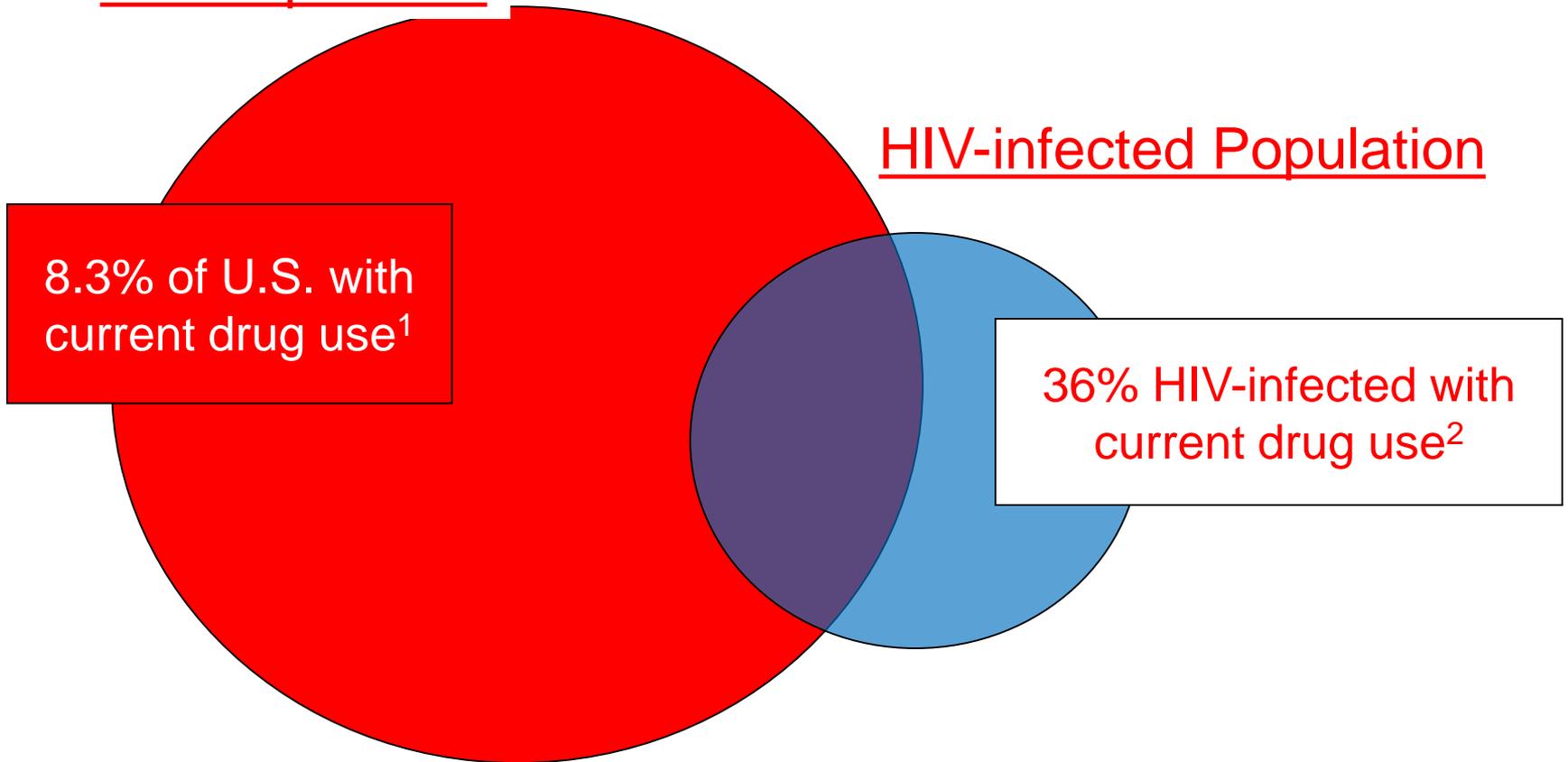
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HIV-Drug Use "Syndemic"

U.S. Population

HIV-infected Population



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¹2006 NSDUH survey

²Korthuis JSAT 2008

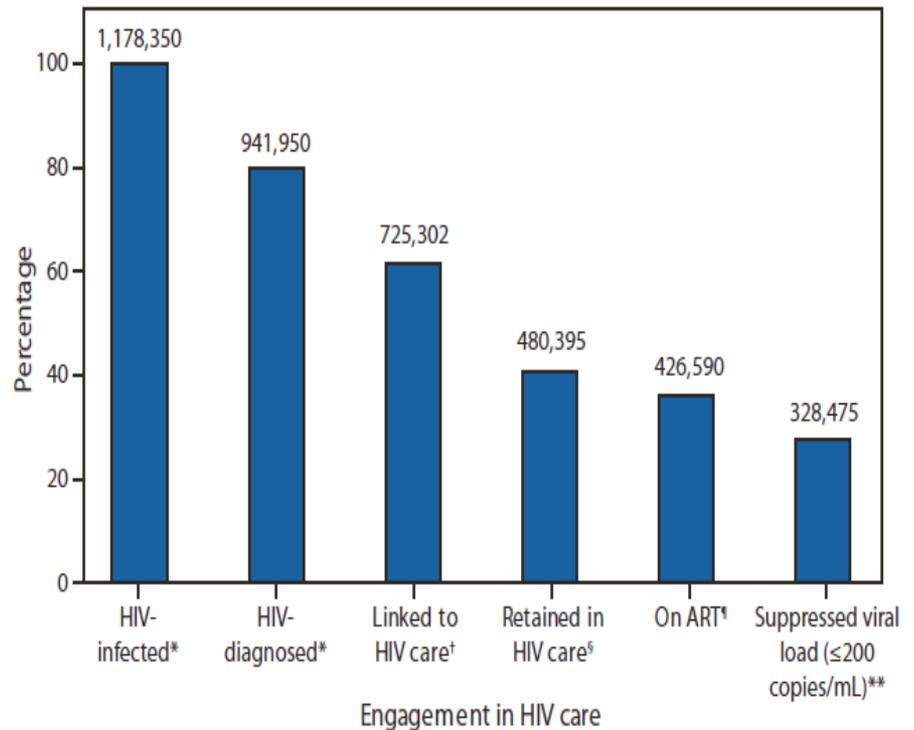
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Substance Use

Substance use serves as a powerful cofactor at every stage of HIV/AIDS disease including

- transmission,
- diagnosis,
- pathogenesis
- treatment

(Kipp et al. 2011; Friedman et al. 2006; Passaro et al 2015)



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Substance Use Disorders

- Since 1999, the rate of overdose deaths involving opioids nearly quadrupled. From 2000 to 2014 nearly half a million people died from drug overdoses (78 deaths per day)
- Since 1999, the amount of prescription opioids sold in the U.S. nearly quadrupled (current legislation attempting to address pharmaceutical production quantities)
- Deaths from prescription opioids—oxycodone, hydrocodone, and methadone—have also quadrupled since 1999
- CDC report significant increase in drug overdose deaths across the US with highest increase in NON metropolitan areas.
 - Rural areas within the PA and MidAtlantic region have seen sharp increases in illicit use and deaths from opioids including oxycodone and heroin.
 - The MAAETC has been on the forefront of providing interventions on substance use, mental illness, hepatitis, harm reduction and HIV.



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- Ambulatory detox
- Medication-assisted Treatment
- Harm reduction
- Psychosocial treatments
- Mutual Support Programs (12-step Programs)

- ART and adherence to ART and medical treatment
- Obtain medical workup
- Preventative health
- Sexual health

Substance Use

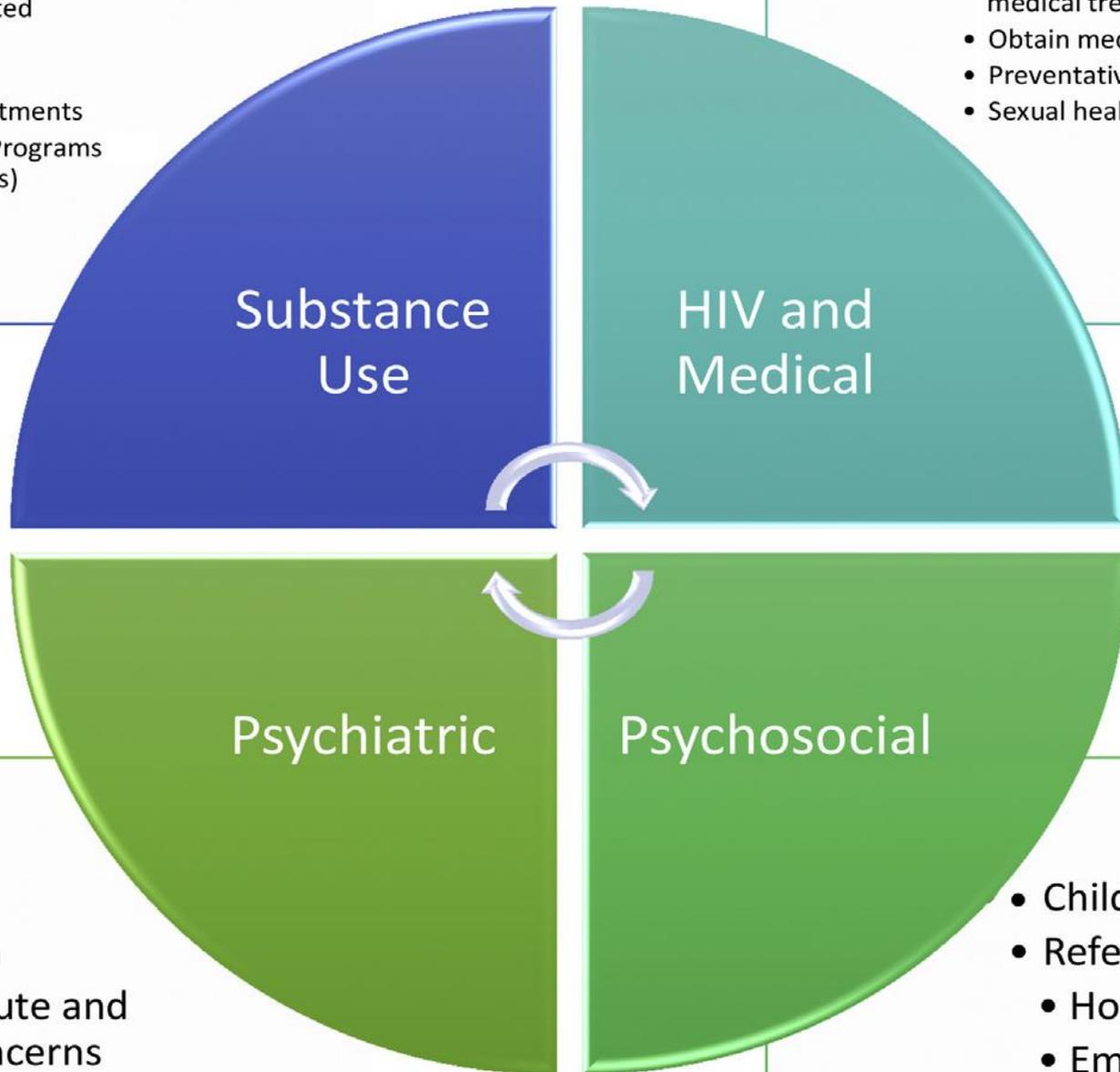
HIV and Medical

Psychiatric

Psychosocial

- Therapy
- Medication
- Address acute and chronic concerns
- Referral if needed

- Childcare
- Referrals:
 - Housing
 - Employment
 - Financial



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