

HIV and related infections in prisoners 6

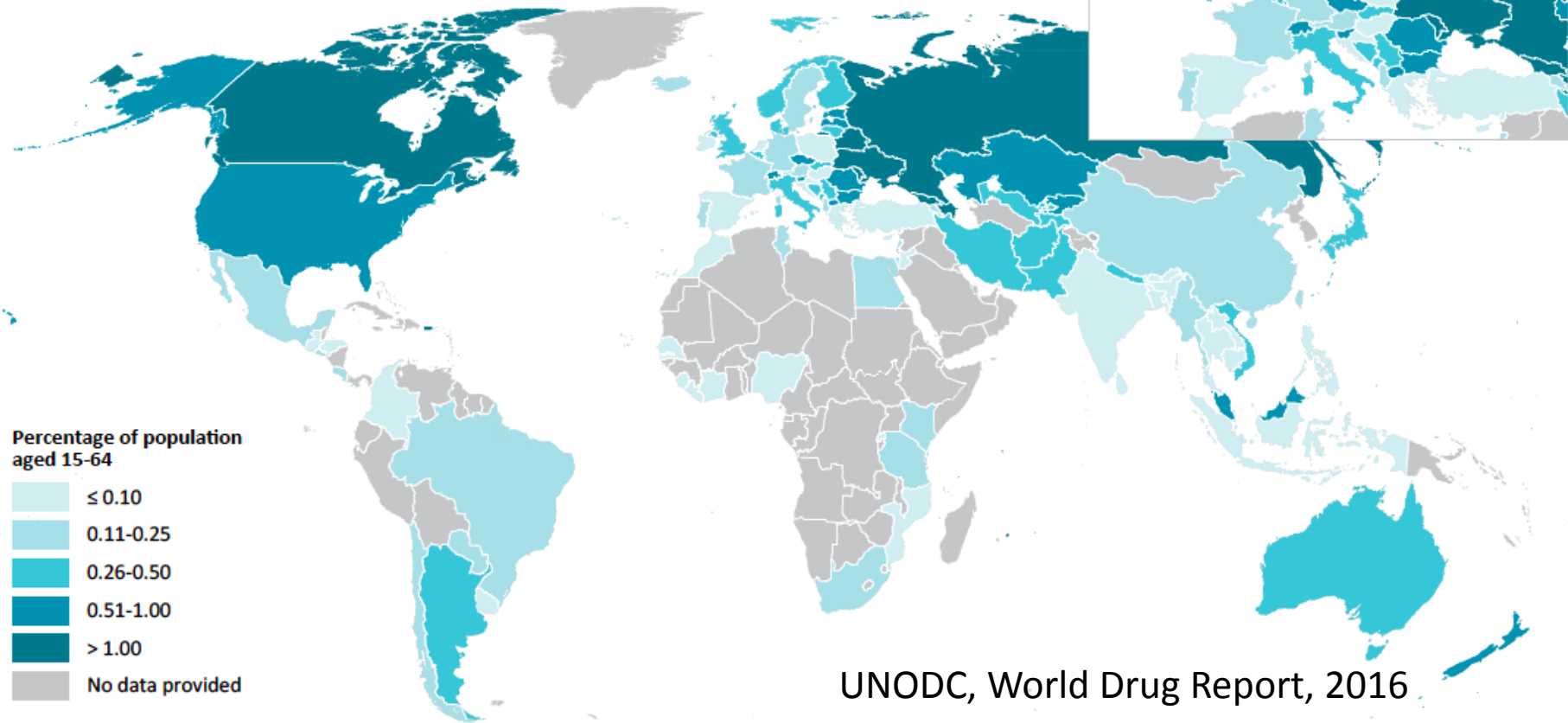
The perfect storm: incarceration and the high-risk environment perpetuating transmission of HIV, hepatitis C virus, and tuberculosis in Eastern Europe and Central Asia

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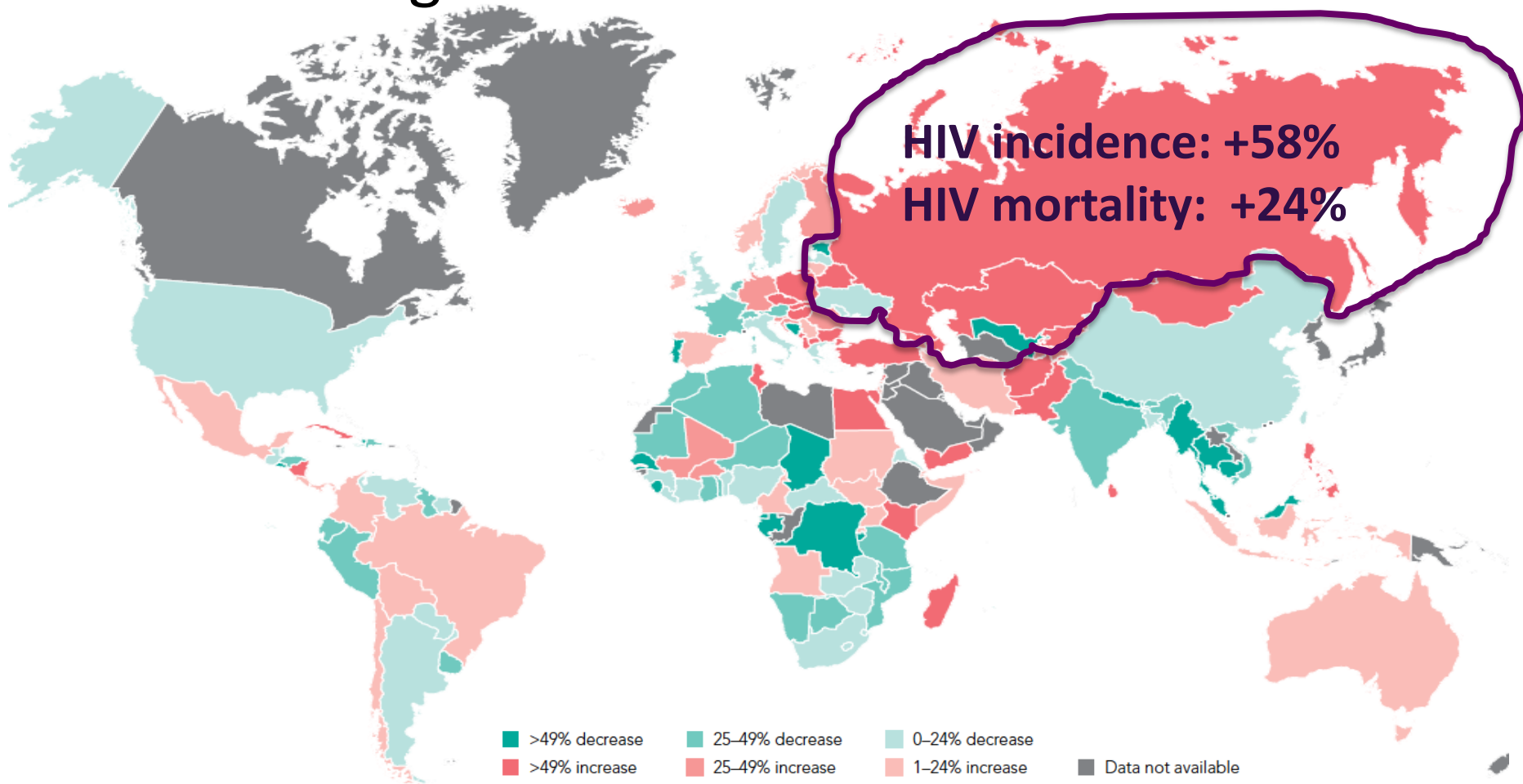
Eastern Europe and Central Asia: Historical Context

- 15 UNAIDS-Designated EECA Countries – all former Soviet Union countries
- Diverse cultures and religions with distinct political, economic and social trajectories after independence
- They share socio-political, philosophical and organizational vestiges of the former Soviet Union that now shape the synergistic epidemics of mass incarceration, substance use disorders, and infectious diseases (HIV, viral hepatitis and TB)
- Aside from Russia and the 3 Baltic countries, the other 11 EECA countries are LMIC
- After the collapse of the Soviet Union, heroin routes opened along the Northern and Balkan routes, resulting in an expanding opioid epidemic, with high levels of drug injection and transmission of blood-borne infections

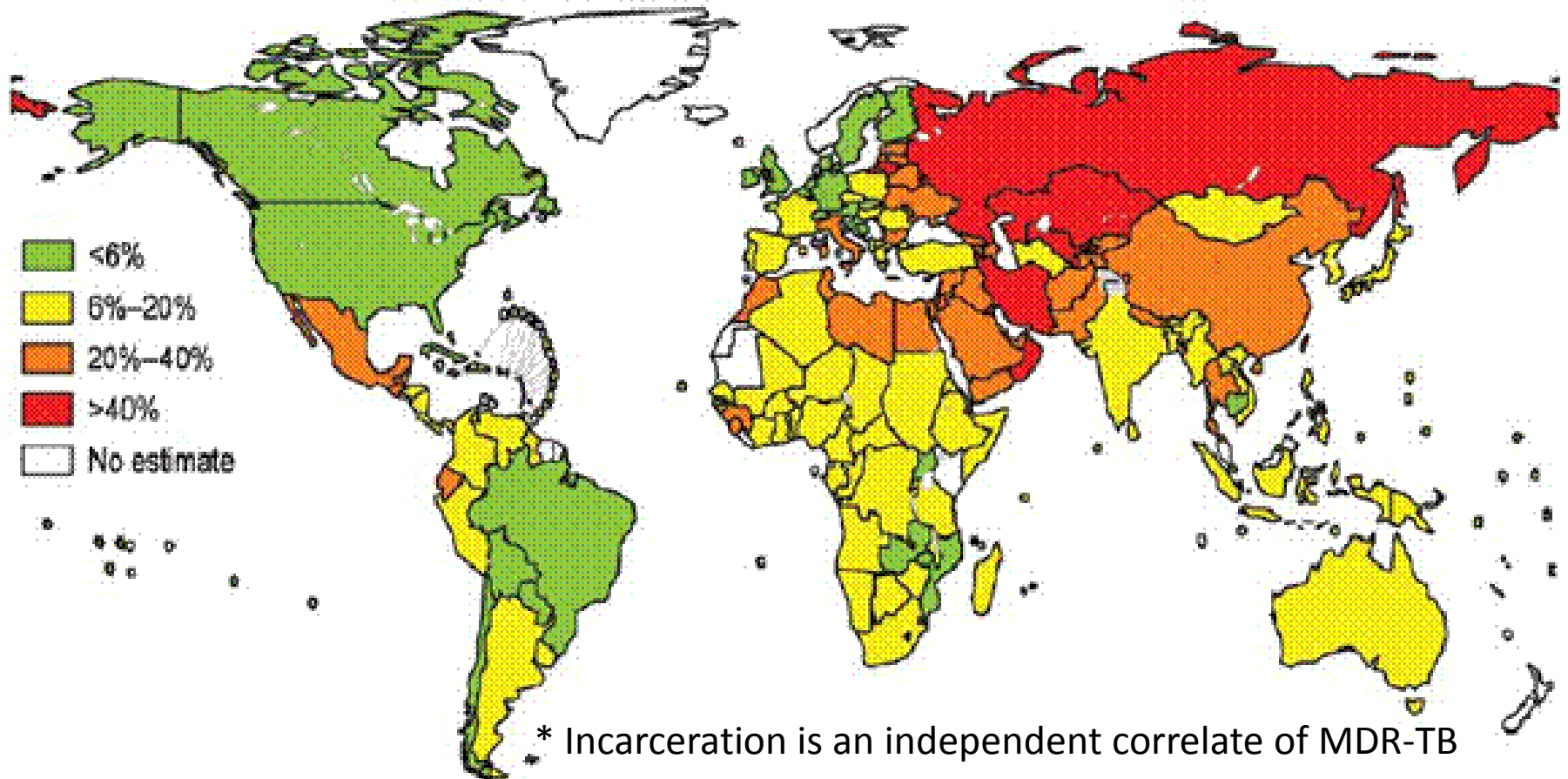
Prevalence of injecting drug use, 2014 or latest available year

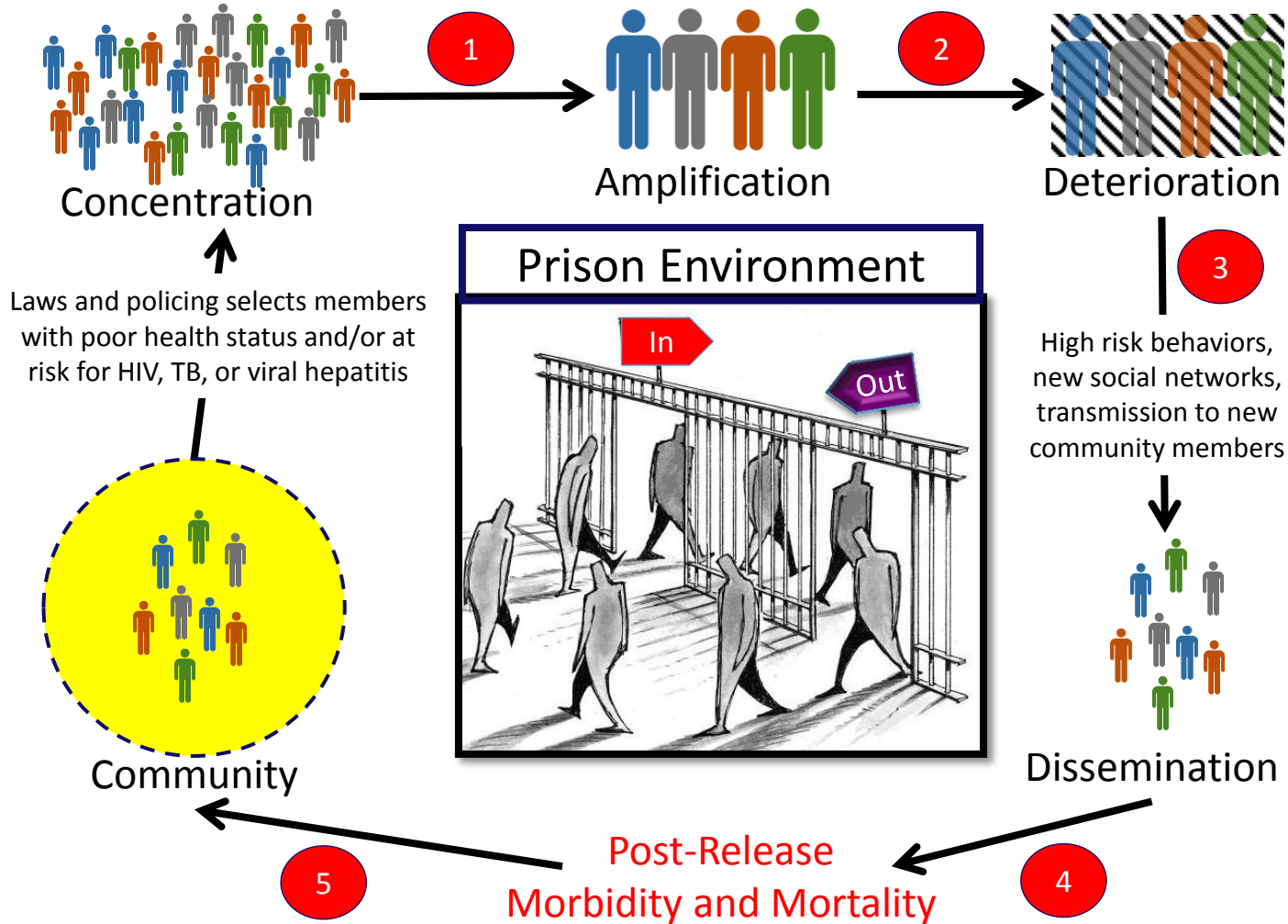


Percent Change in New HIV infections: 2005 to 2015

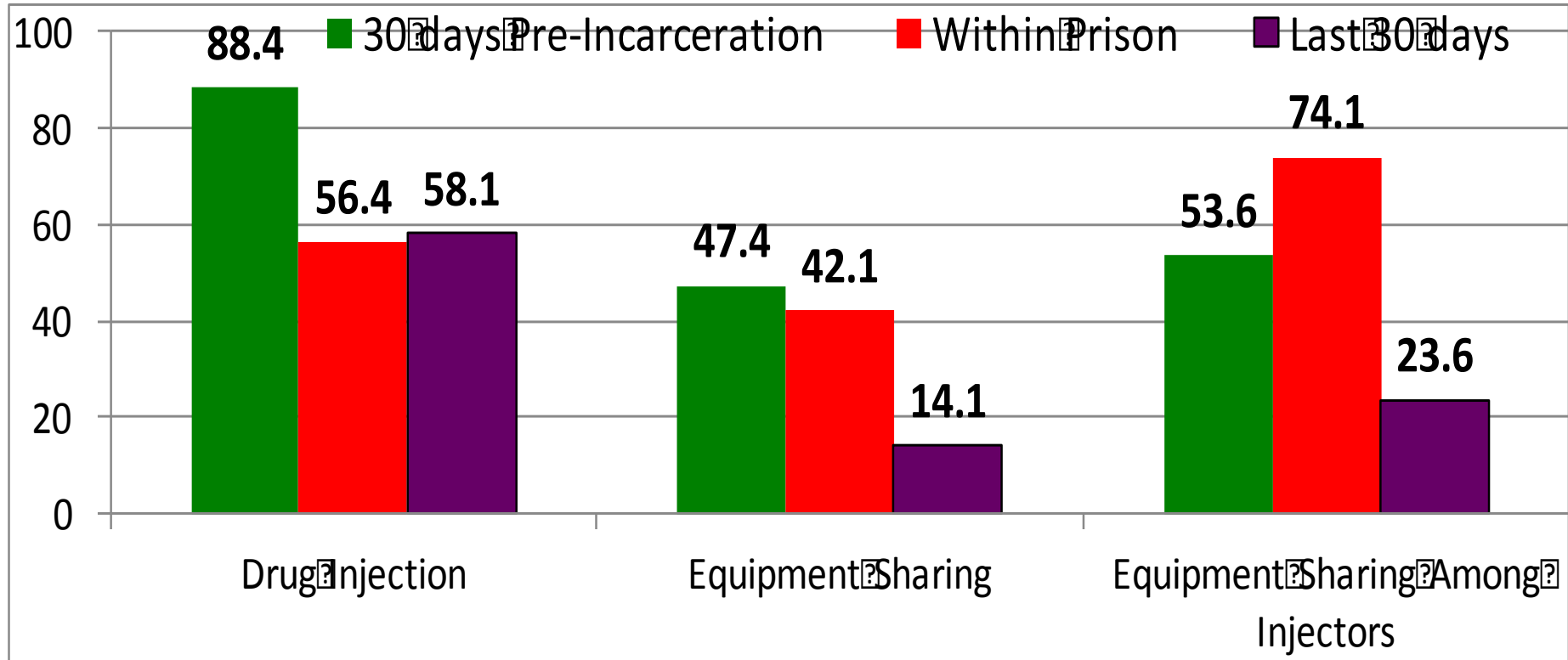


MDR-TB Prevalence





Drug Injection and Sharing of Equipment by HIV+s in Ukraine (N=97)

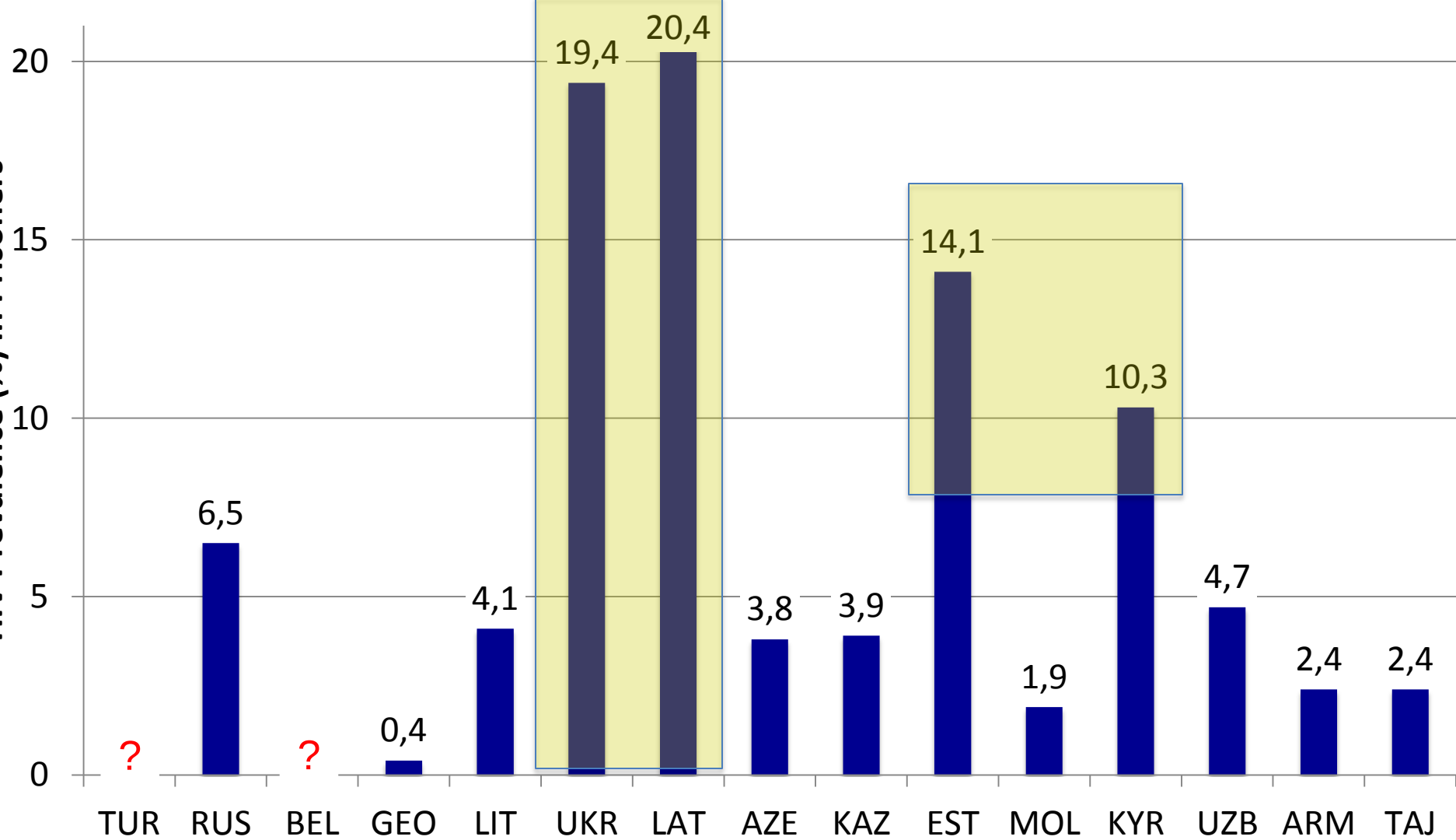


HIV, HCV, TB and Opioid Use Disorders in EECA

- Opioid use disorders: 30-50% of prisoners are PWID (mostly opioids)
 - High levels of within-prison drug injection
 - Historical role of Narcology and negative attitudes toward opioid agonist treatments
- HIV: ~50% of PLWHA know their diagnosis, but the HIV continuum varies greatly thereafter
- HCV: prevalence 30-60% of all prisoners, but testing is uncommon and no treatment available aside from a HCV elimination program in Georgia
- Incarceration is associated with TB and MDR/XDR TB with MDR TB typically 3-fold higher in prisoners than in the community
 - Inadequate diagnostics and treatment algorithms, especially with HIV/TB
 - Inadequate supply of medications
 - Enabling environment that promotes MDR TB
 - Inadequate transitional services
- Multiple structures and oversight undermine care in the CJS

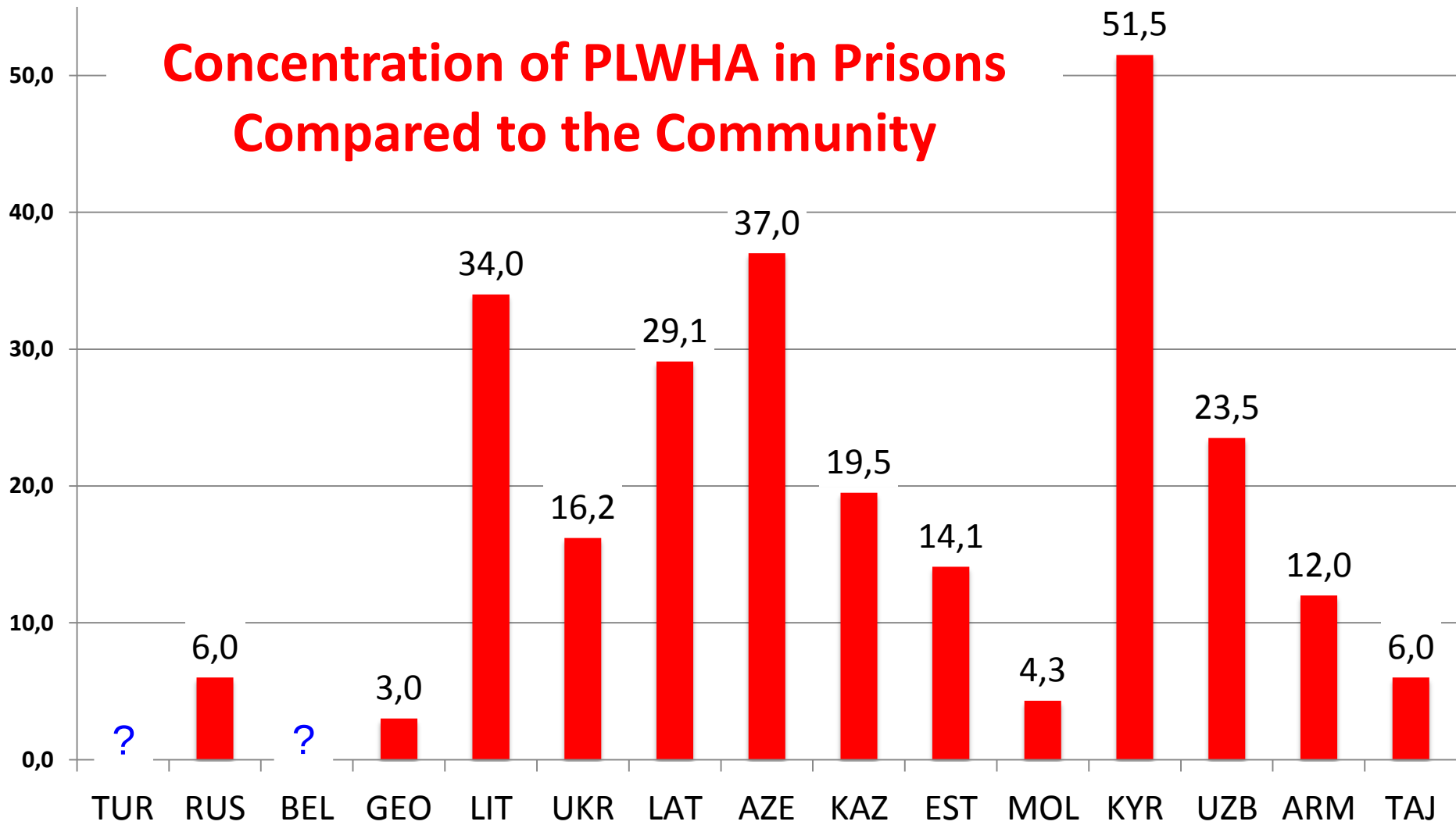
HIV in Prisons in Countries of Eastern Europe and Central Asia

HIV Prevalence (%) in Prisoners



Concentration of PLWHA in Prisons Compared to the Community

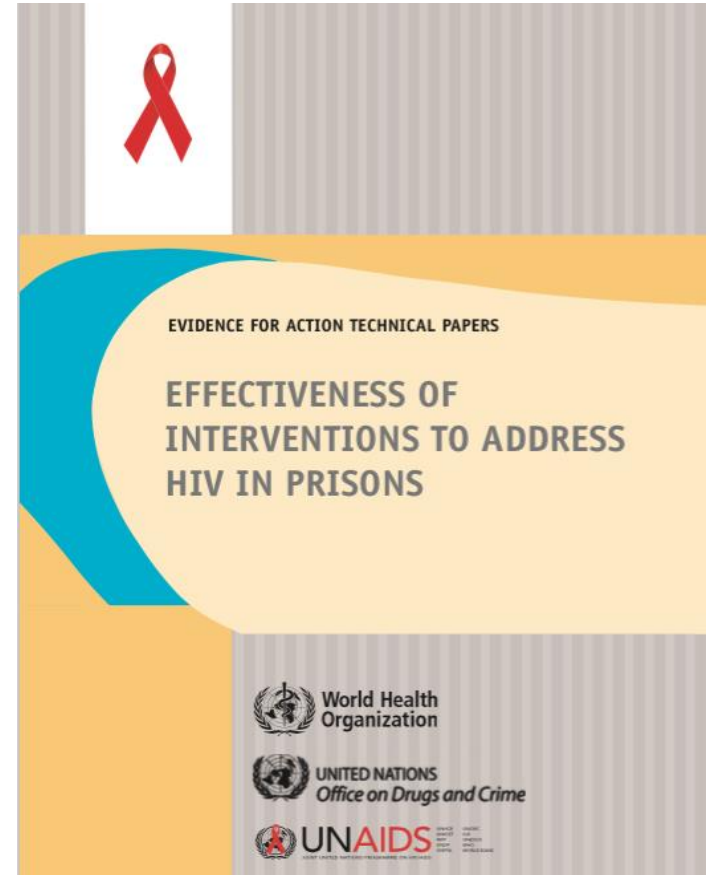
Fold-Increase in PLWHA in Prisons



HIV Prevention Strategies in Prisons in Countries of Eastern Europe and Central Asia

HIV Prevention in Prisons

- Improved HIV testing (detection ~50% in most settings)
- Universal ART (with prophylaxis of OIs)
- Opioid agonist therapies
- NSPs

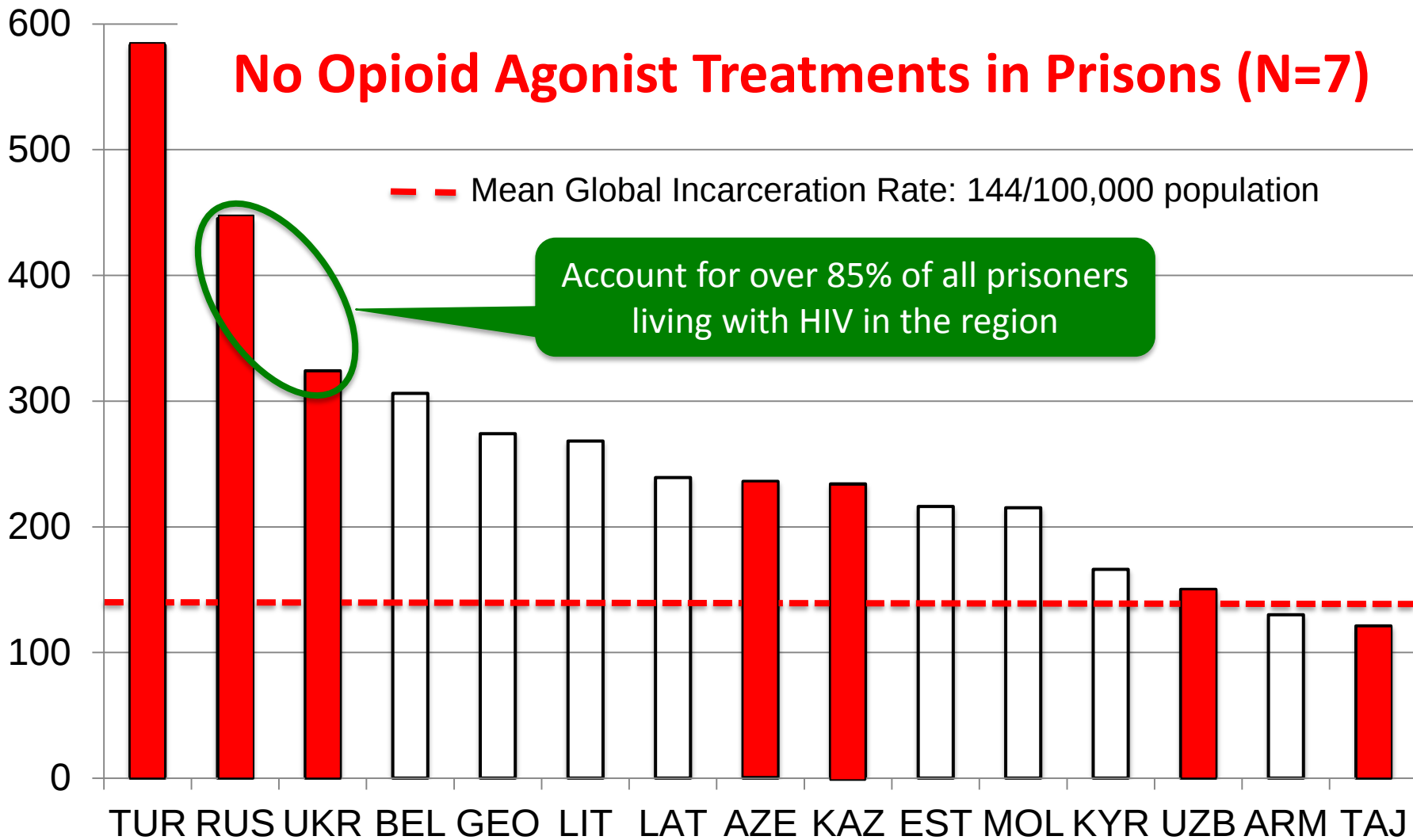


No Opioid Agonist Treatments in Prisons (N=7)

Incarceration per 100,000 population

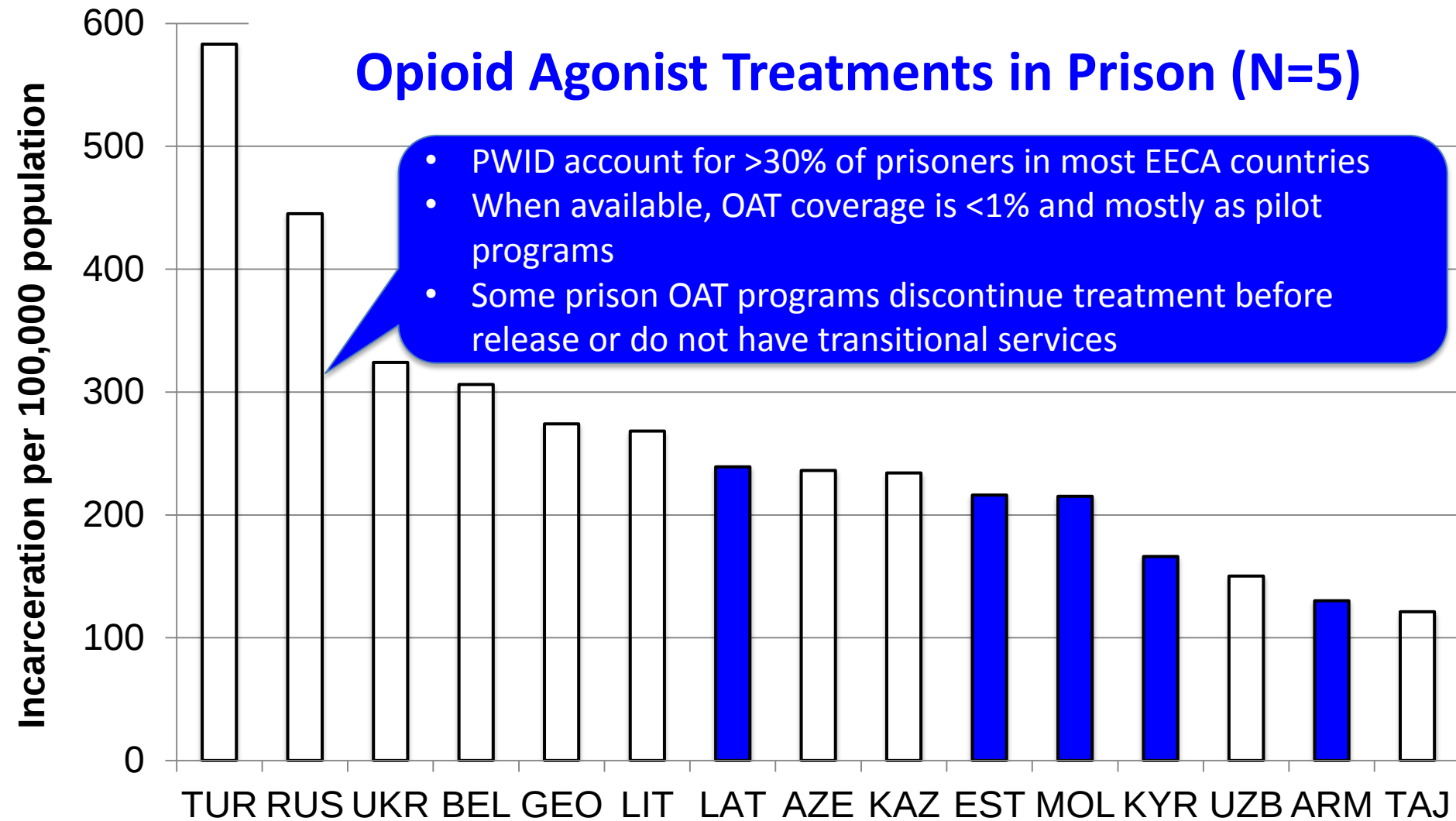
--- Mean Global Incarceration Rate: 144/100,000 population

Account for over 85% of all prisoners living with HIV in the region

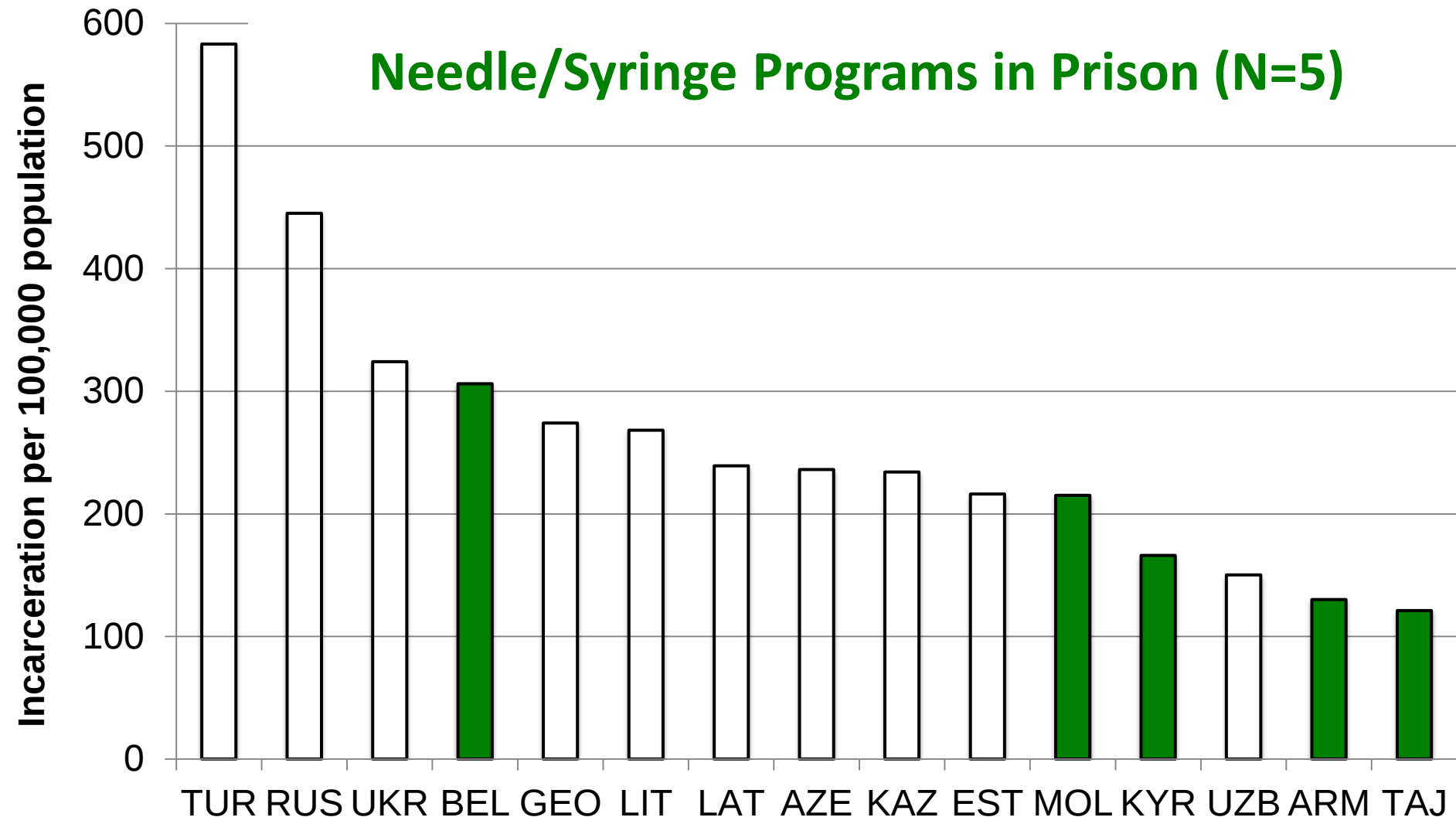


Opioid Agonist Treatments in Prison (N=5)

- PWID account for >30% of prisoners in most EECA countries
- When available, OAT coverage is <1% and mostly as pilot programs
- Some prison OAT programs discontinue treatment before release or do not have transitional services

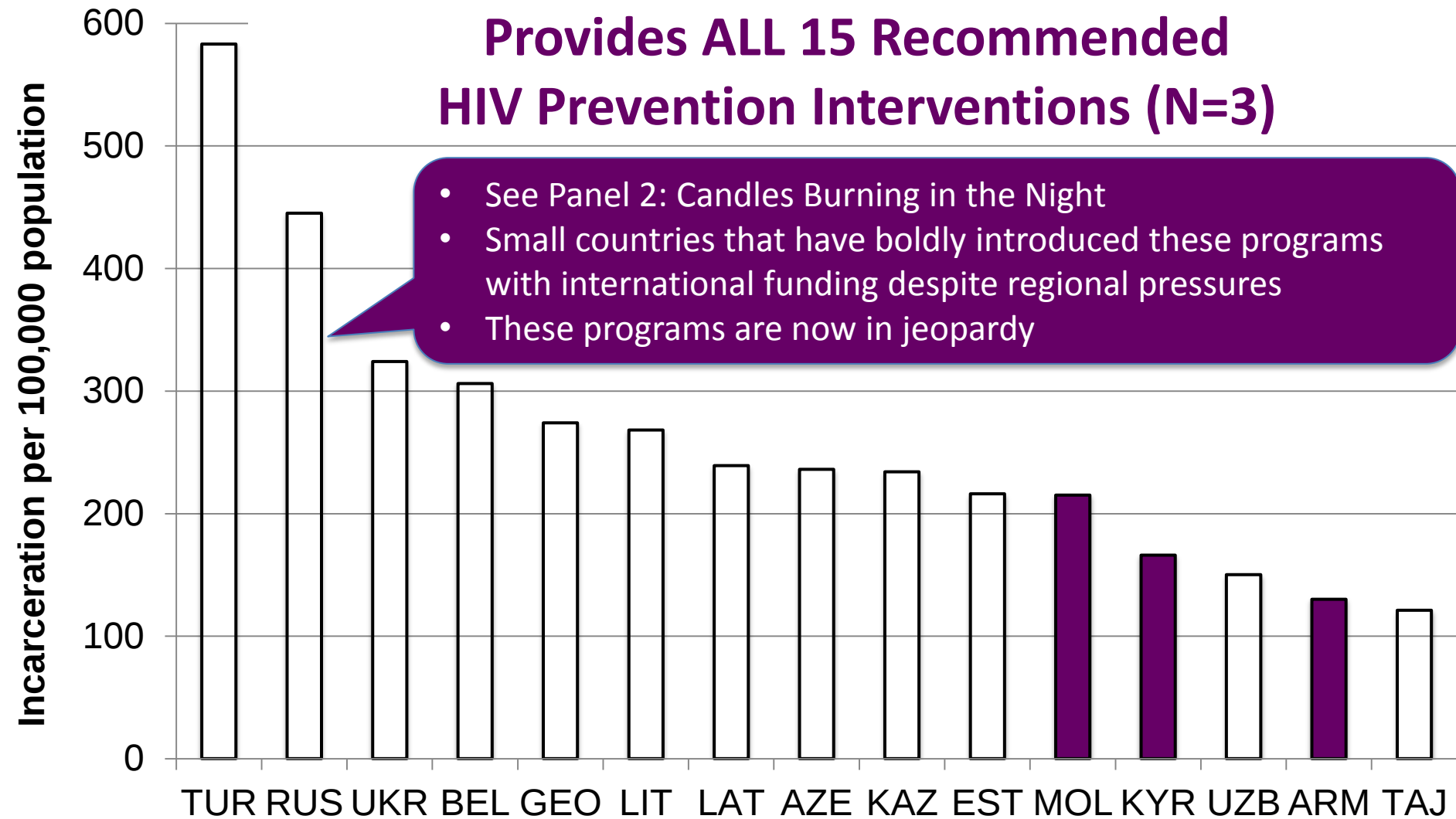


Needle/Syringe Programs in Prison (N=5)



Provides ALL 15 Recommended HIV Prevention Interventions (N=3)

- See Panel 2: Candles Burning in the Night
- Small countries that have boldly introduced these programs with international funding despite regional pressures
- These programs are now in jeopardy

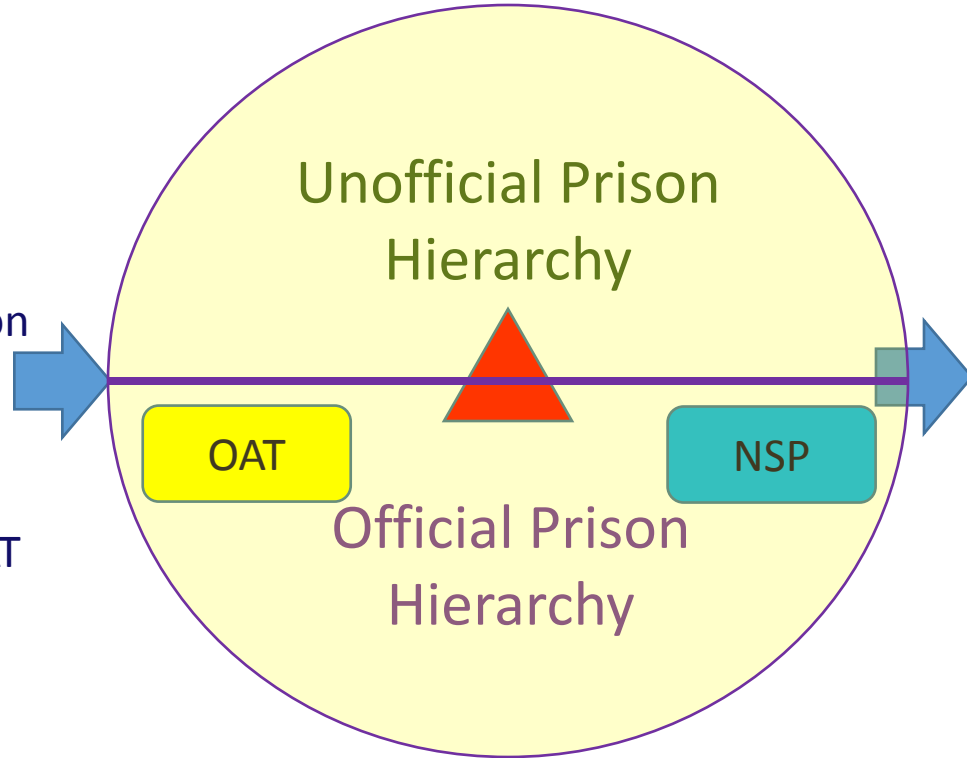


HIV Risk Environment and Prevention

PRISON

Community

- Social networks
- Supports
- Injection networks
- Lower concentration of HIV
- Access to OAT and NSP
- Attitudes about OAT

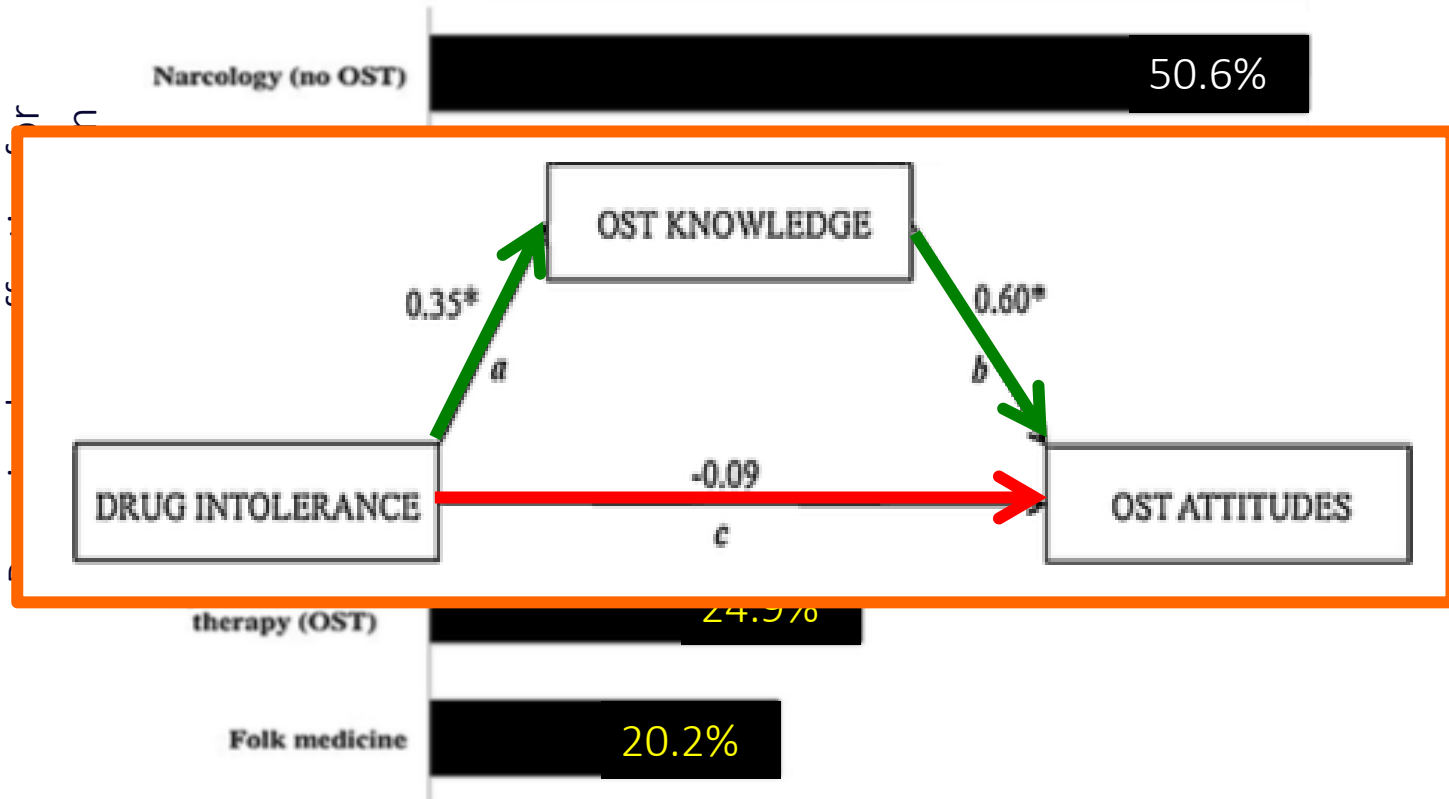


Community

- NEW Social networks
- NEW Supports
- NEW Injection networks
- Medical services
- Access to OAT and NSP
- Attitudes about OAT

Attitudes Toward OAT by Prison Staff

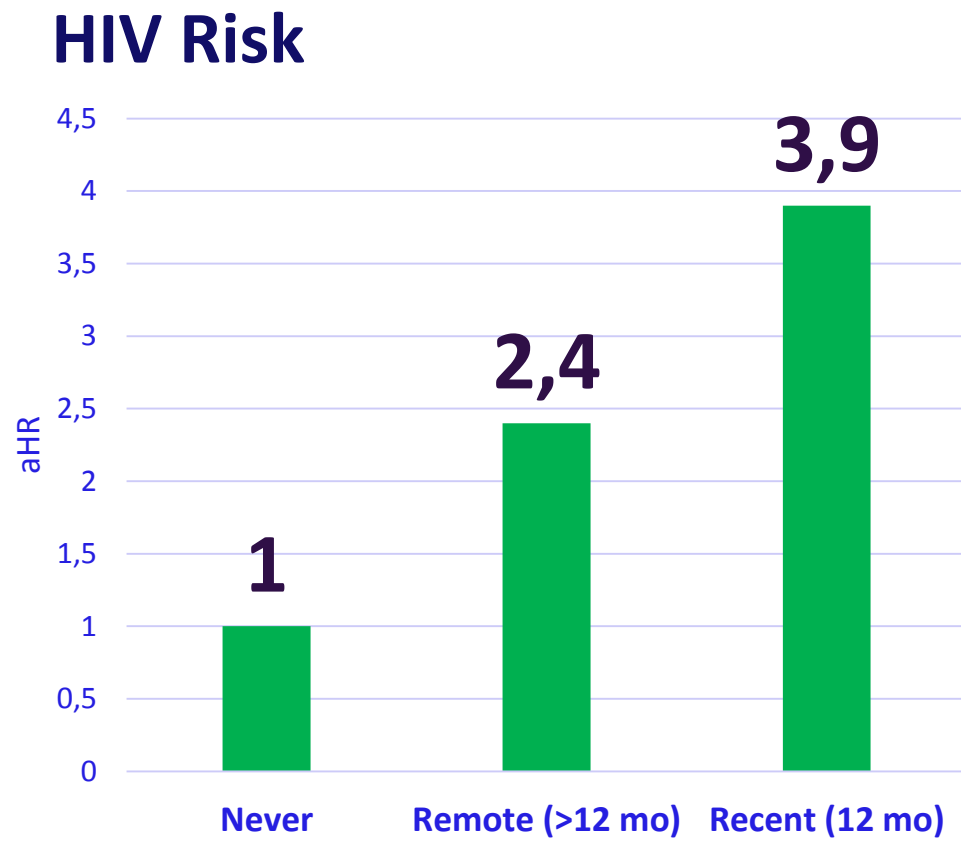
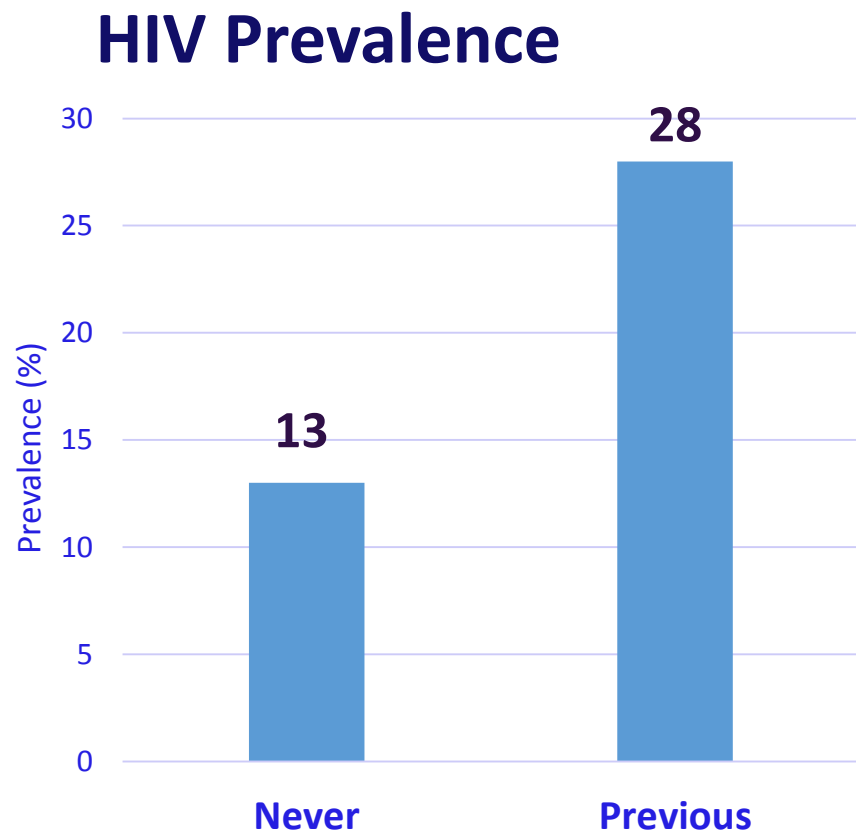
Polonsky M et al, Drug Alcohol Depend, 2015

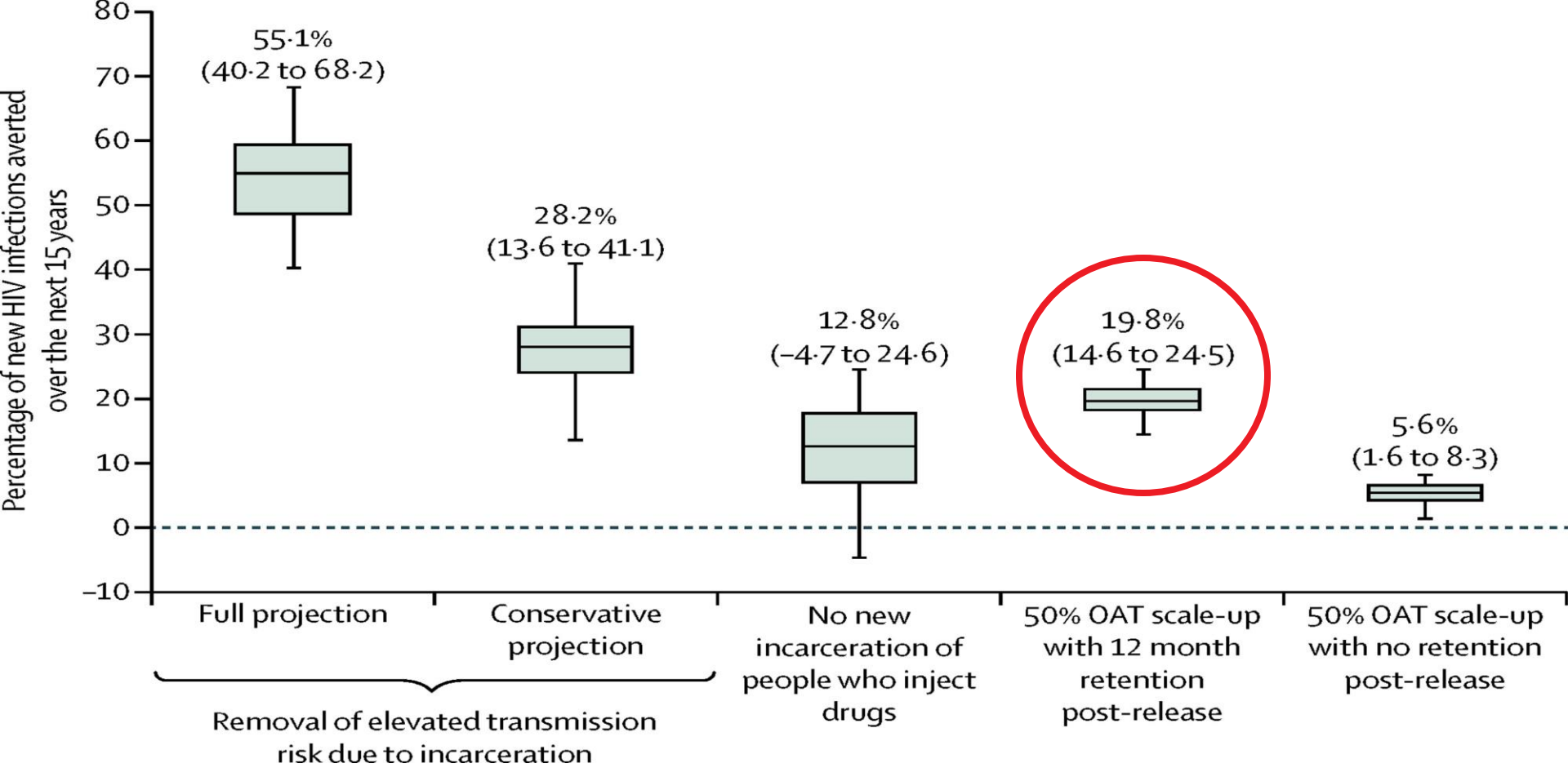


Ukraine Case Study

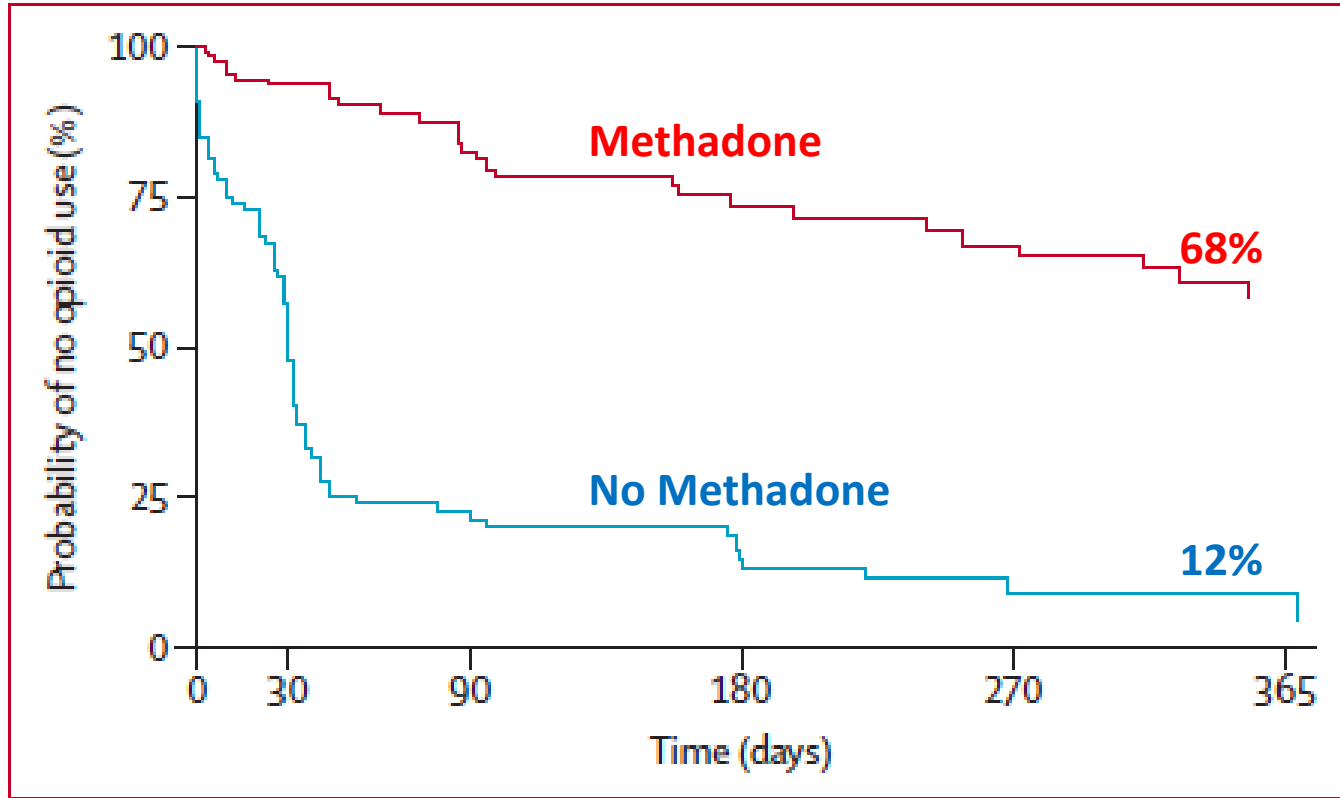
- LMIC embroiled in political/economic conflict
- ~45 million people with highest adult HIV prevalence (1.2%) in EECA
- 310,000 estimated PWID
 - HIV prevalence: 15% to 45%
 - Proportion on OAT: 2.7%
 - Proportion on ART: <5% (only 20% of all PLWHA)
 - Ever incarcerated: at least 52%, with an average of 5 incarcerations, 1 year each

Incarceration: Elevated HIV Prevalence and Risk in PWID

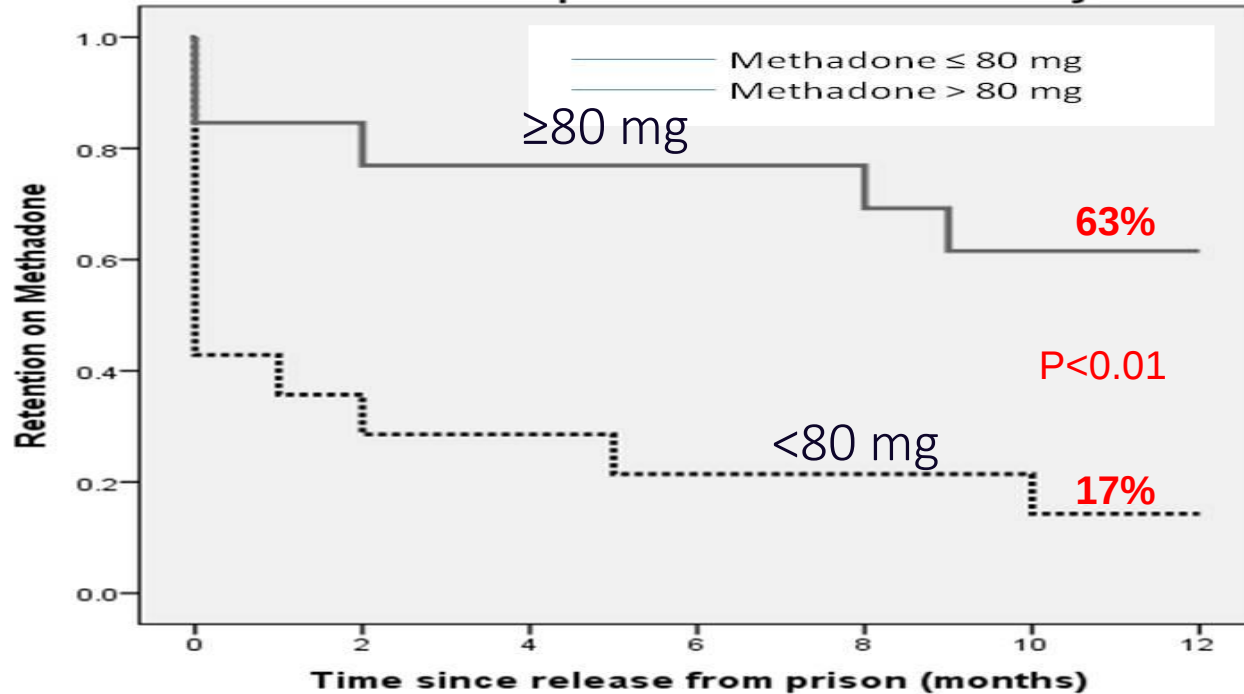




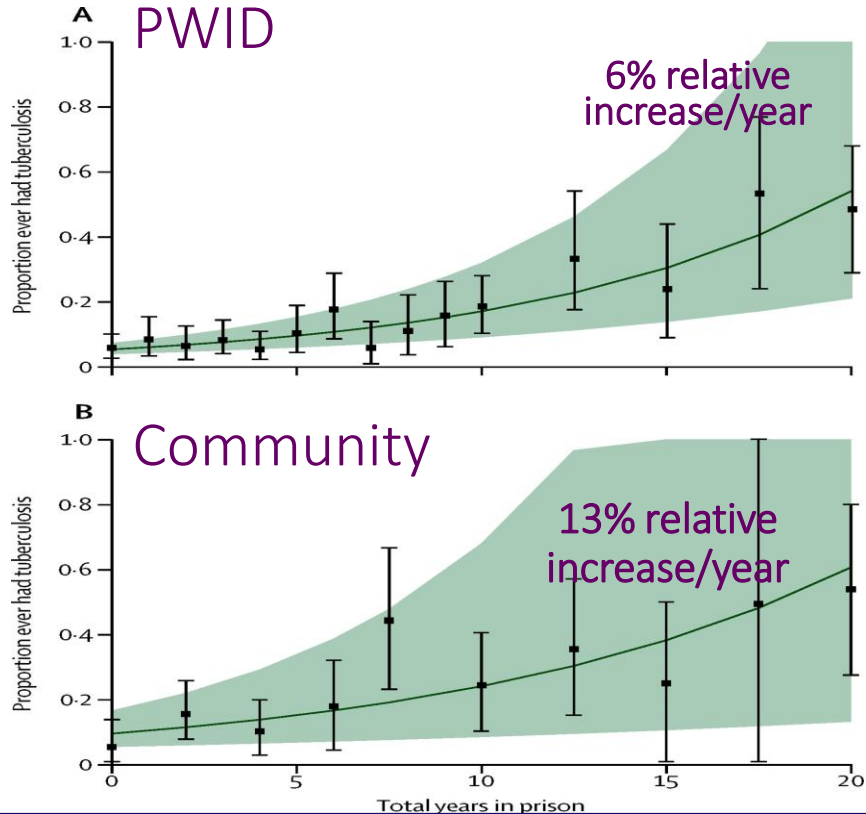
Time to Relapse to Opioid Injection After Release from Confined Settings



Impact of Methadone Dose on Treatment Retention After Release from Prison



Incarceration and Contribution to TB in Ukraine



- Data derived from nationally-representative prison^{1,2} and PWID community surveys³
- Incarceration accounts for 6.2% of all incident TB cases (population-attributable fraction)
- Among PWID, however, incarceration contributes to 75% of new TB cases in PWID with HIV

Recommendations

- Reduce incarceration for key populations, especially PWID
- Introduce and scale-up HIV prevention with OAT, NSP and ART, including effective transitional programs post-release
- Improve testing and treatment strategies (continuum of care) for HIV, HCV and TB
- Eliminate the gap between prison and community treatment and prevention services, including structural impediments for service delivery and continuity
- Integrate services given the high rate of medical and psychiatric co-morbidity

“It is said that no one truly knows a nation until one has been inside its jails. A nation should not be judged by how it treats its highest citizens, but its lowest ones.”

-- Nelson Mandela

