

PDU: What are we measuring

PDU Generic case definitions

We are measuring the prevalence of 'recurrent drug use that is causing actual harms (including physical, psychological or social problems) to the person or is placing the person at a high risk of suffering such harms'



http://www.emcdda.europa.eu/attachements.cfm/att_218205_EN_PDU%20revision.pdf

PDU: What are we measuring

- Generic case definition by estimate
 - Common estimates
 - Injecting Drug Use (PWID)
 - · High-risk Opioid Use
 - High-risk Cannabis Use
 - Country-specific estimates
 - High-risk Cocaine use
 - High-risk Amphetamines use
 - High-risk of other substances
 - High-risk of opioids, cocaine and/or amphetamines
 - Characteristics of high-risk drug use

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PDU: How are we measuring it

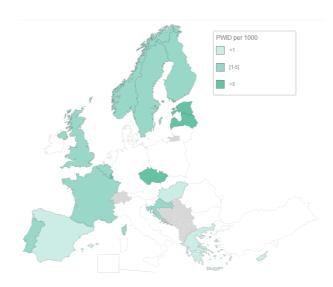
- **Ideally** based on clinical diagnosis of (harms) and high-risk pattern of use (potentially harmful):
 - ICD10: Harmful use, Dependence syndrome
 - DSM5: Substance use disorder
 - Injecting in the last 12 months not according to prescription
 - High frequency of use
- **In practice**, using proxies and indirect methods to estimate the size of hidden populations
 - Using Treatment/Mortality/HIV/ Police/Probation registries
 - Estimating those not captured using capture-recapture, truncated poisson, multiplier

Methods

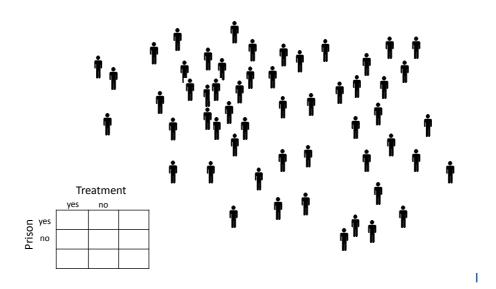
Methods	Freq
Capture-Recapture > 2 sources	3
Capture-Recapture	2
Truncated Poisson	2
Treatment Multiplier	3
Mortality Multiplier	2
HIV Multiplier	2
Extrapolation to HRDU	2

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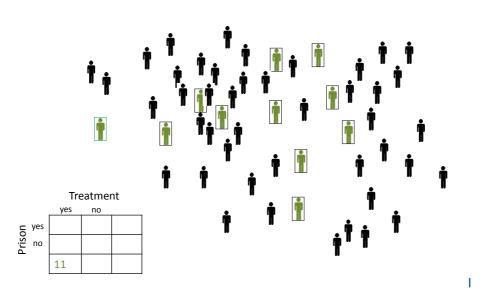
Number of people who inject drugs per 1000, most recent estimates (2009 onwards) source: FONTE



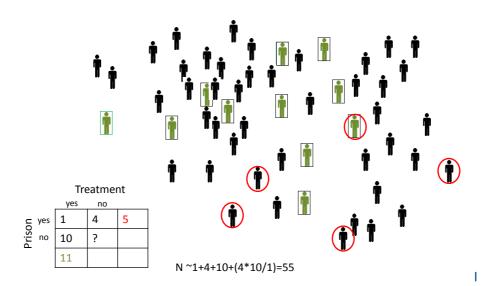
Capture-recapture



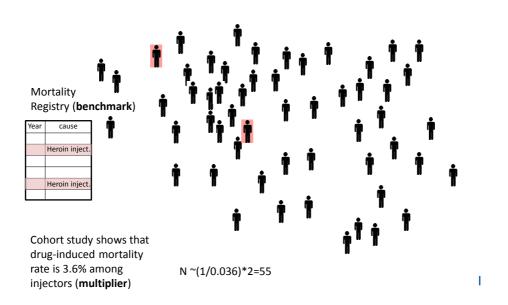
Capture-recapture



Capture-recapture



Multiplier



HIV Multiplier

• Barrio Anta et al (2010) in Spain:

- Benchmark: new HIV diagnosed in recent injectors in 2001-08 (covering ~30% of population)
 - · Adjusted for under-reporting, drug users not tested, delayed reporting
- Multiplier obtained from 2 cohort studies among HIV- injectors (1224 person/years, 2001-06)
- Authors estimate HIV+ drug injectors and HIV- drug injectors

• Bollaerts et al (2013) in Belgium:

- Benchmark: HIV/AIDS register (2000-10) with information on ever-injectors
 - Adjusted with imputation methods for missing information
- Multiplier obtained from a sero-behavioural study among everinjectors in contact with treatment facilities or prison (2004-05)

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Assumptions-Requirements

• Assumptions:

- Being captured by one source does not influence the chance of being captured by another source (Independence)
- The probability of being captured is equal across individuals (Homogeneity)
- The population is closed
- Relies on individual record linkage for CR
- Relies on recent and representative studies for multiplier (cohort, cross-sectional)

Next steps

- PDU working group on PWID
 - Identifying available data sources
 - Exchanging protocols
 - Crude methods
 - More advanced methods
 - Discussing limitations
 - Planning Reitox Academy