



HIV and Hepatitis Surveillance trends in the EU/EEA

Dr Andrew Amato, Head of HIV/STI/viral Hepatitis programme
European Centre for Disease Prevention and Control

Overview



- The latest EU surveillance data

HIV trends (2015 surveillance and 2016 Dublin Monitoring data)

Hepatitis B and C trends (2015 surveillance and prevalence studies)

Some conclusions

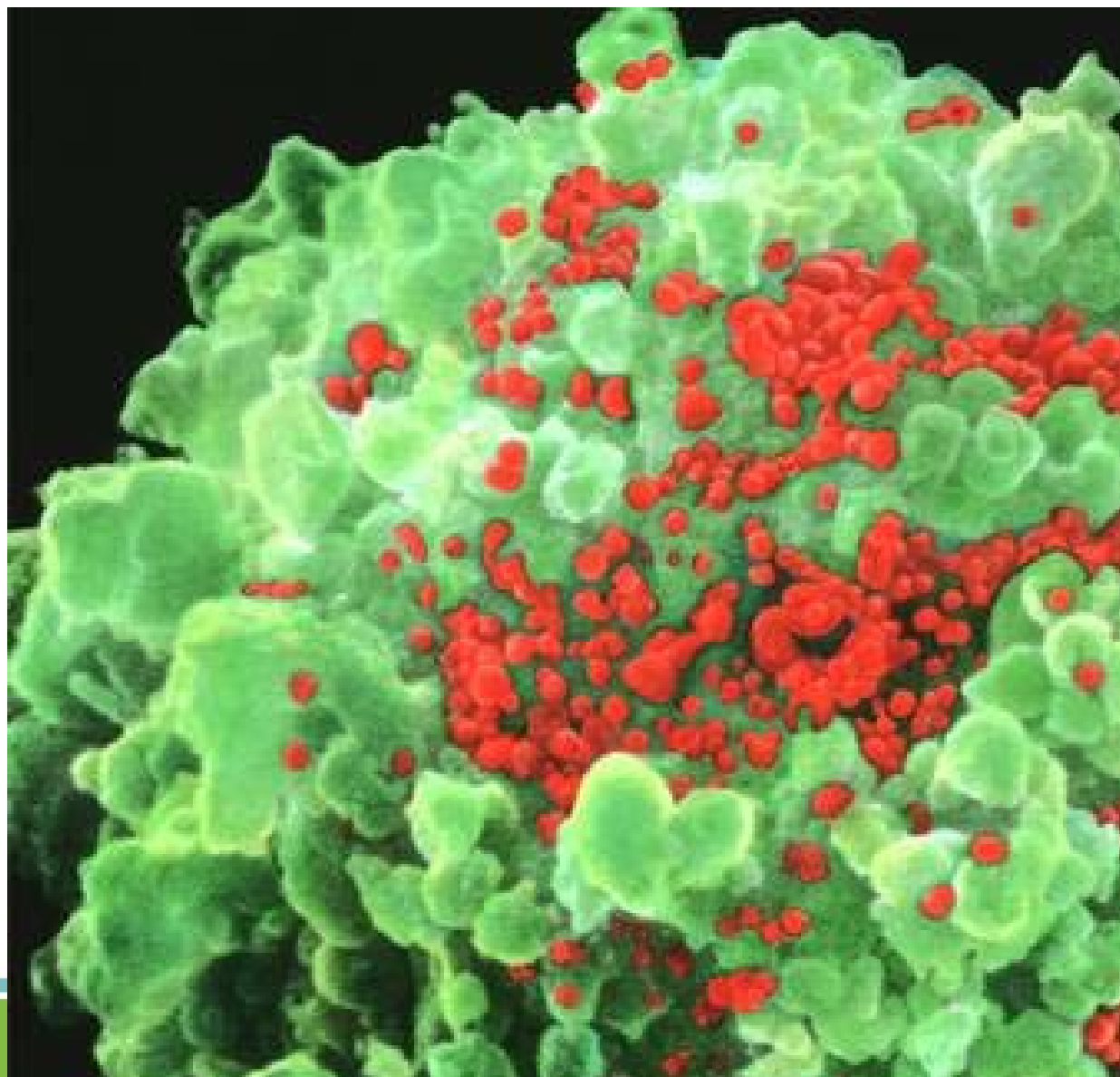
- Feedback from the Presidency conference



**NOTE: It is
"only" case
based
surveillance**

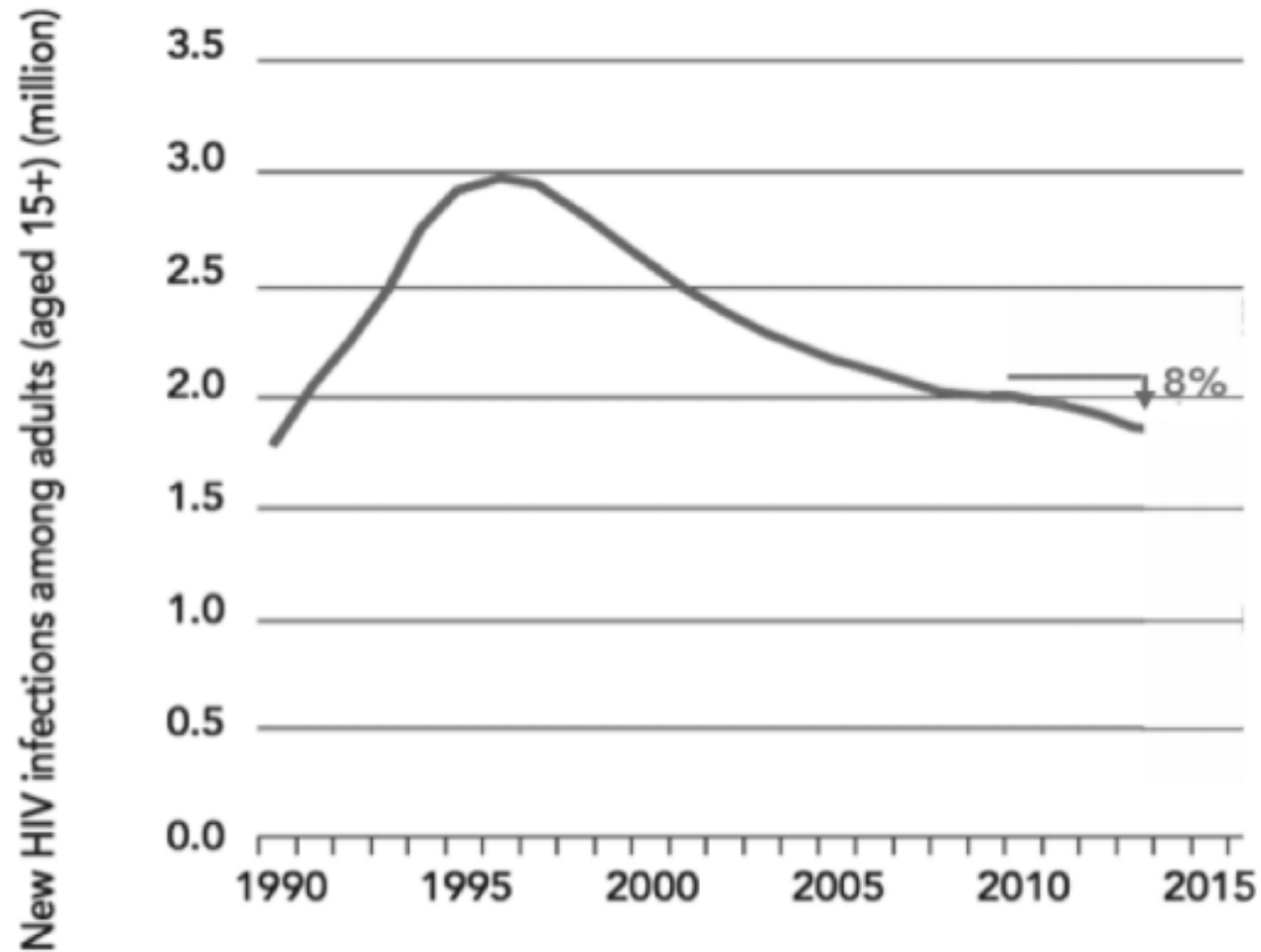


HIV

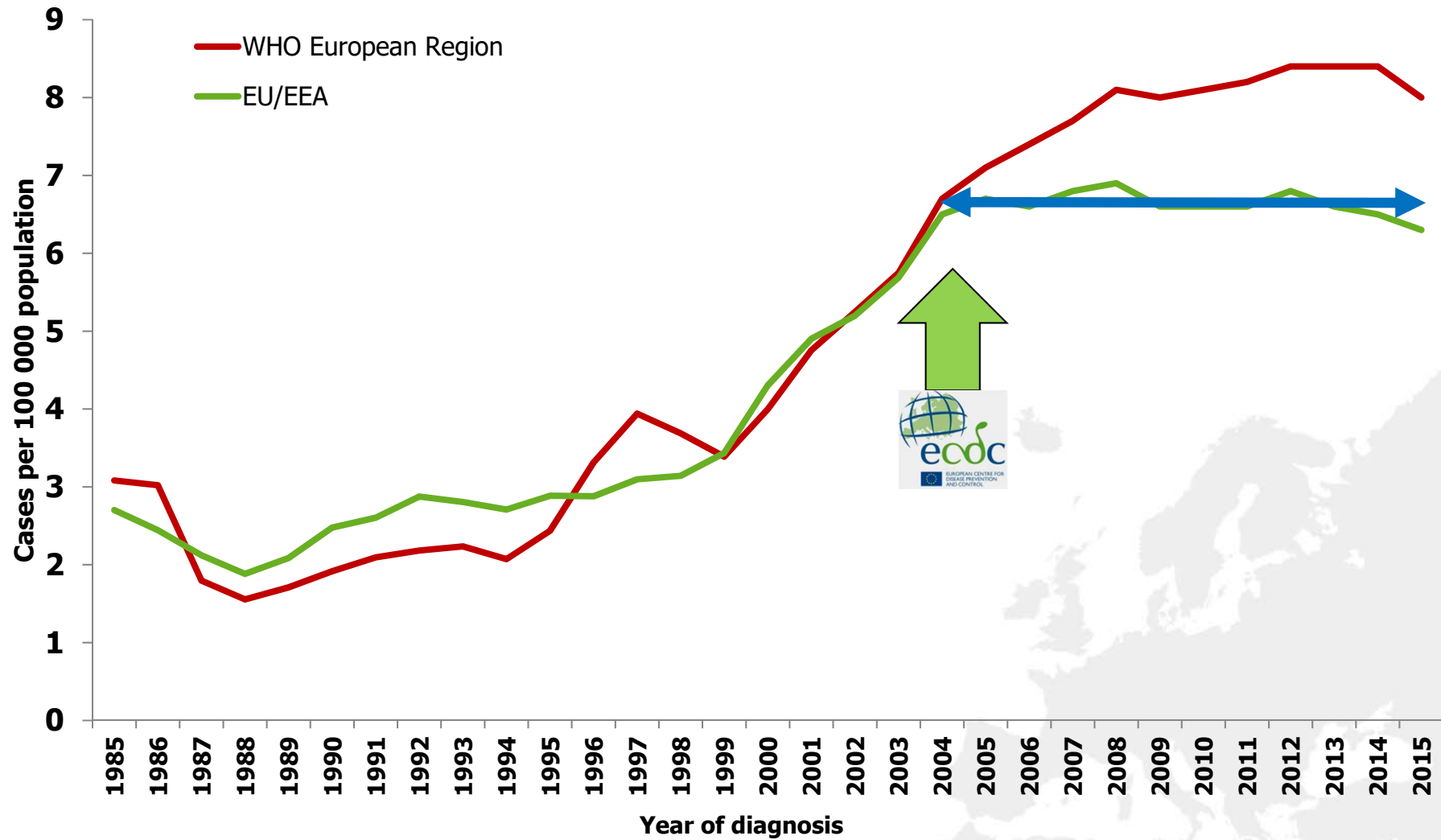


Global HIV trends

New HIV infections among adults (aged 15+) from 1990 to 2014



HIV trends in Europe



29 747 new HIV diagnoses reported in EU/EEA, 2015



World Health Organization
REGIONAL OFFICE FOR Europe



Rate per 100 000 population

< 2

2 to <5

5 to <10

10 to <20

≥ 20

Not included or not reporting

EU/EEA rate 6.3 per 100 000*

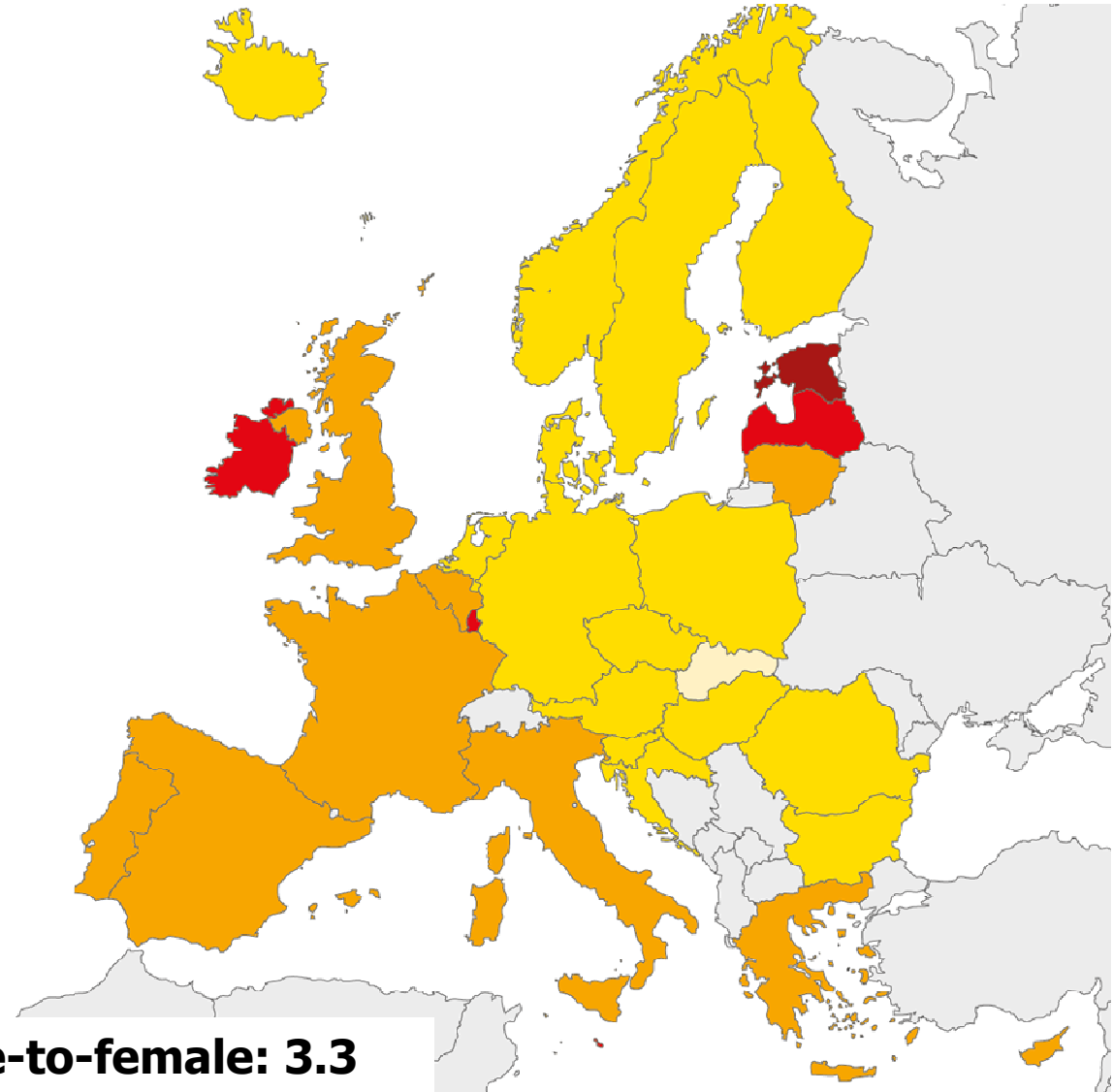
Non-visible countries

 Liechtenstein

 Luxembourg

 Malta

Male-to-female: 3.3



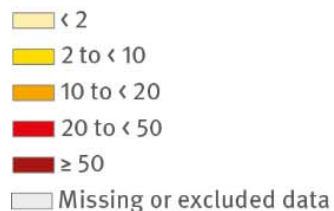
153 000 New HIV diagnoses reported in the WHO Region, 2015



World Health Organization
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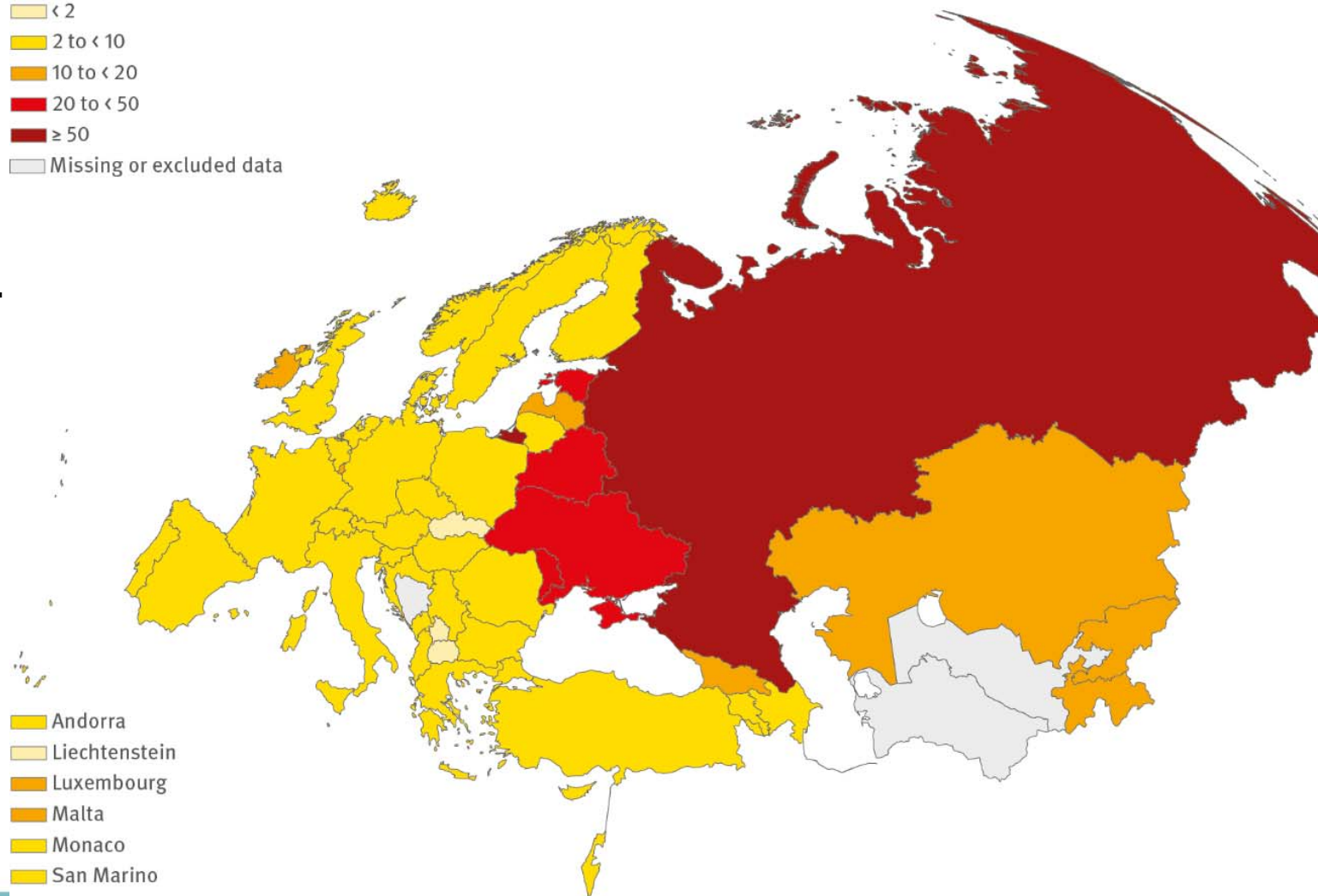


Rate per 100000 population



Rates per 100 000 pop.

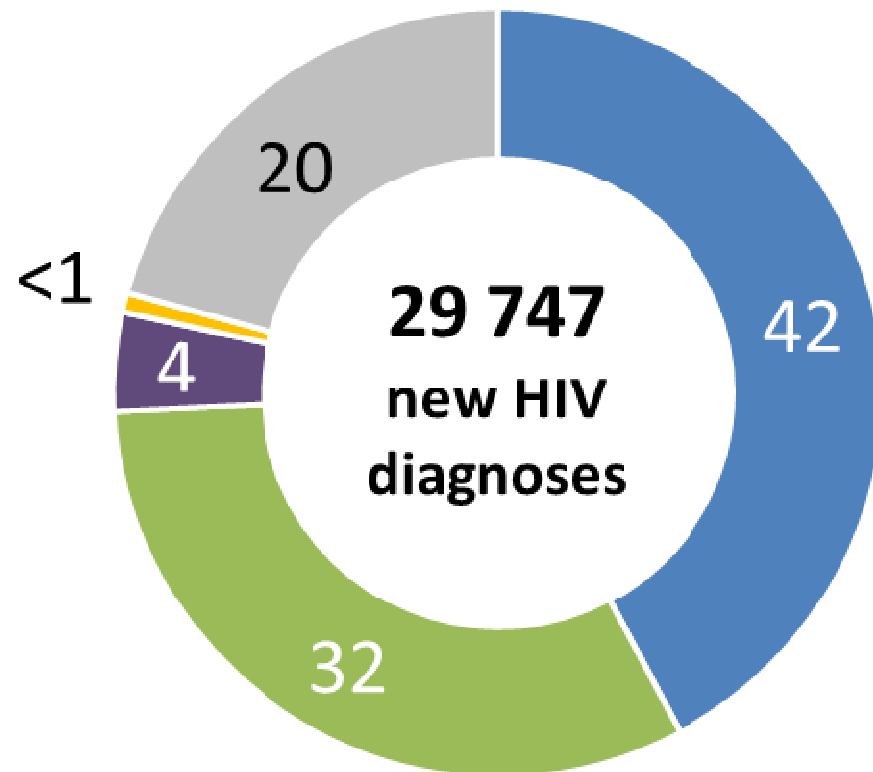
West 6.3
Centre 2.8
East 47.5



Reported HIV by route of transmission, 2015, EU/EEA



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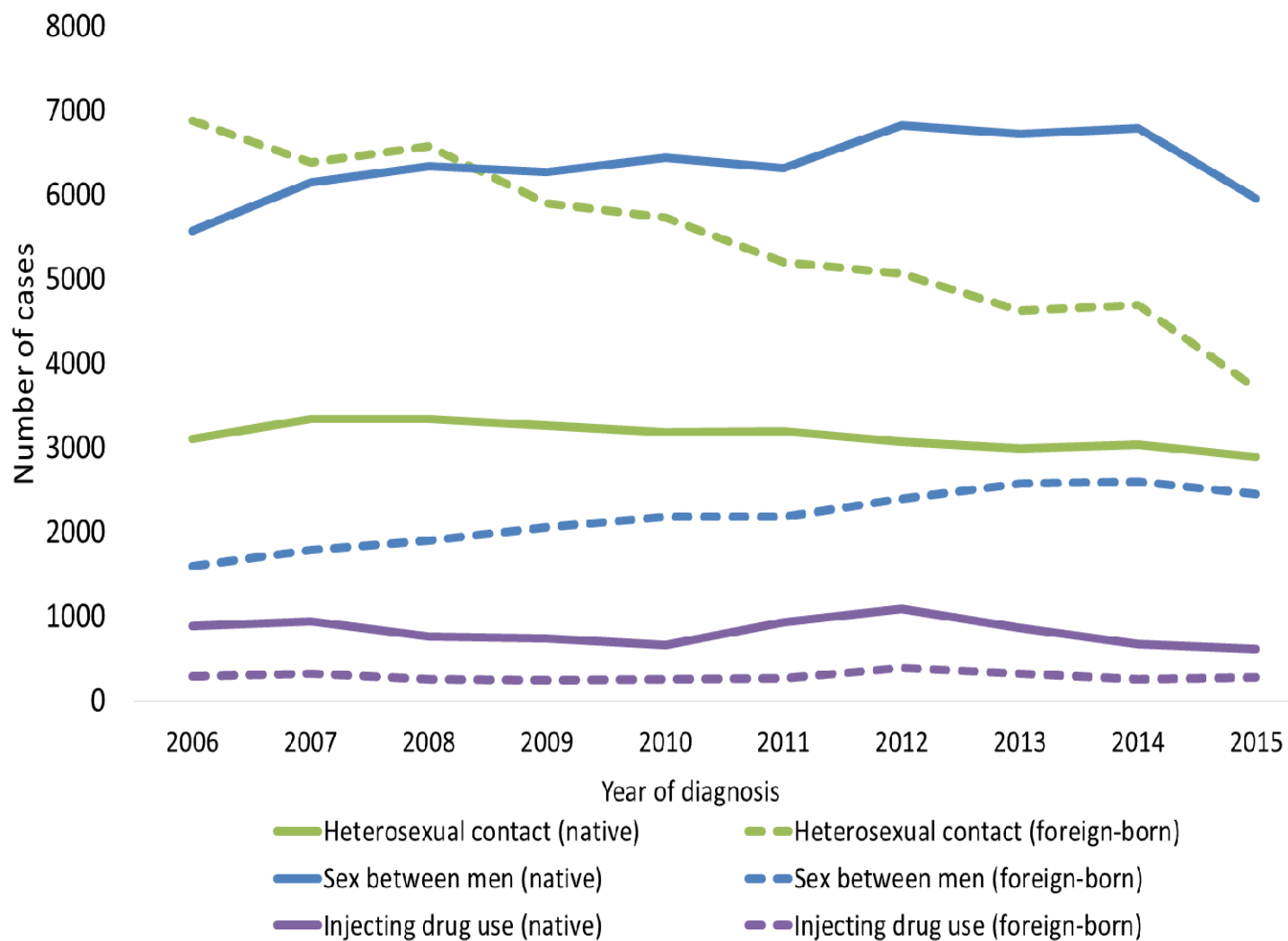


- Sex between men
- Sex between women and men
- Injecting drug use
- Mother to child transmission
- Unknown/other

HIV diagnoses, by transmission mode and migration status, 2006-2015, EU/EEA



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Late diagnosis of HIV is still commonly reported



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In the EU/EEA

47%

of those with a CD4 count reported are diagnosed late

ECDC HIV Modelling Tool findings:

'Incidence Method', a CD4 cell count-based back-calculation



1 in **7** people
living with **HIV** in the EU/EEA
do **not know** they are infected



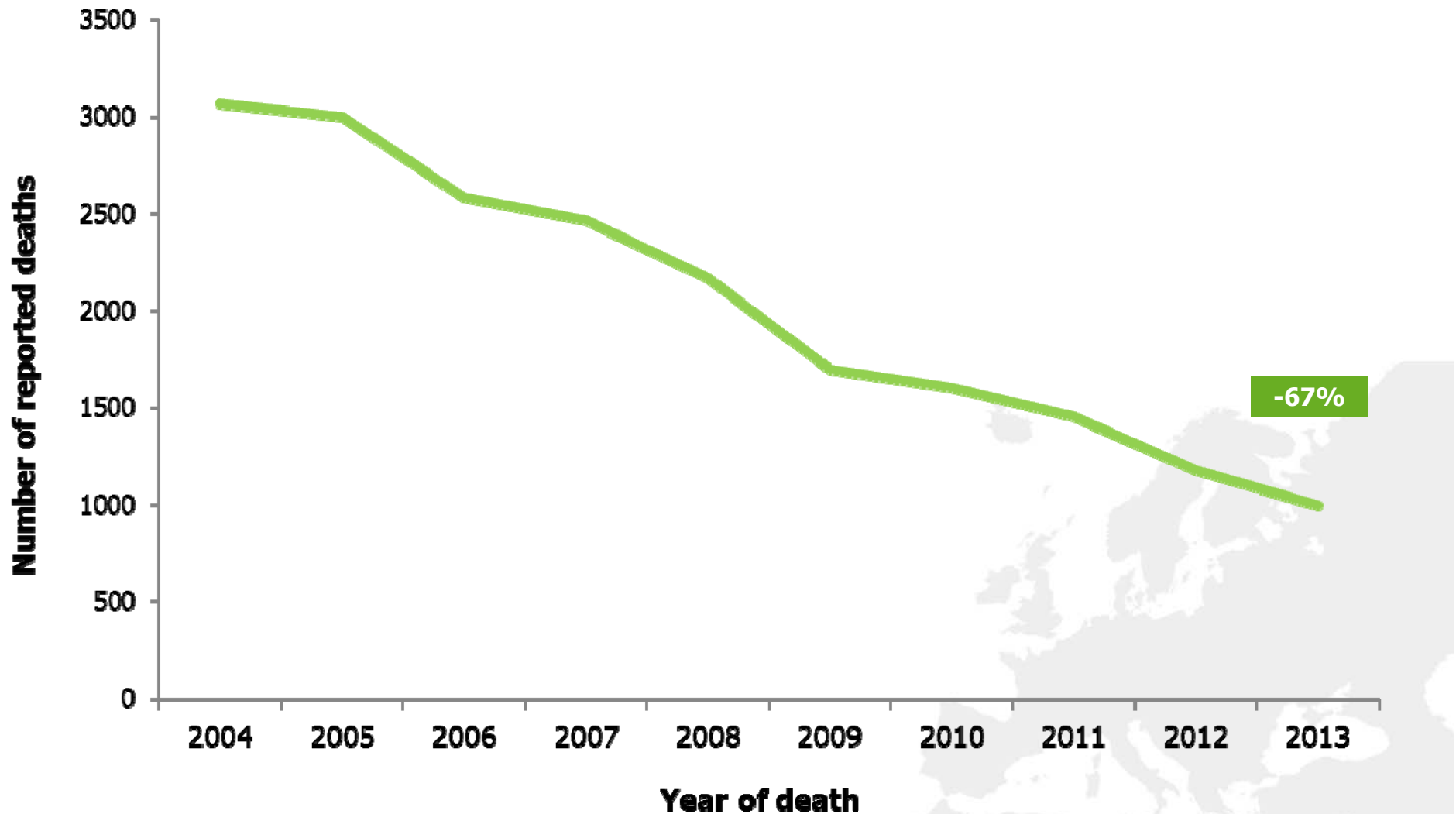
Because it's best to know: find a testing centre near you
all across Europe. Check bit.ly/ECDCIVtesting



AIDS related deaths, EU/EEA, 2004-2013



World Health Organization
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Source: ECDC/WHO. HIV/AIDS Surveillance in Europe, 2014;

Note: Data from Italy and Sweden excluded due to incomplete reporting on death during the period

ECDC Dublin Monitoring findings: Estimates of EU/EEA PLHA not on treatment, 2016



1 in **6** people

who are diagnosed with HIV
in the EU/EEA are **not on treatment**



Treatment changes HIV infection from a life-threatening disease
into a manageable chronic condition.

Adopting 'test and treat' policies and reducing barriers to
accessing care helps make treatment more effective.



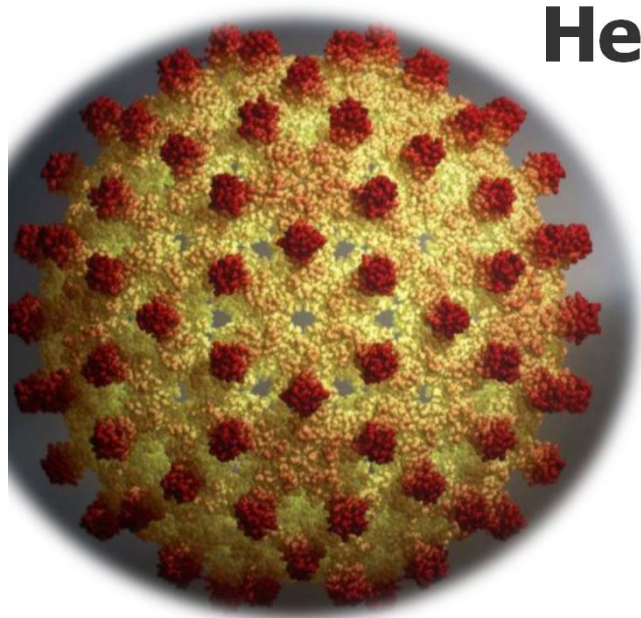
Conclusions



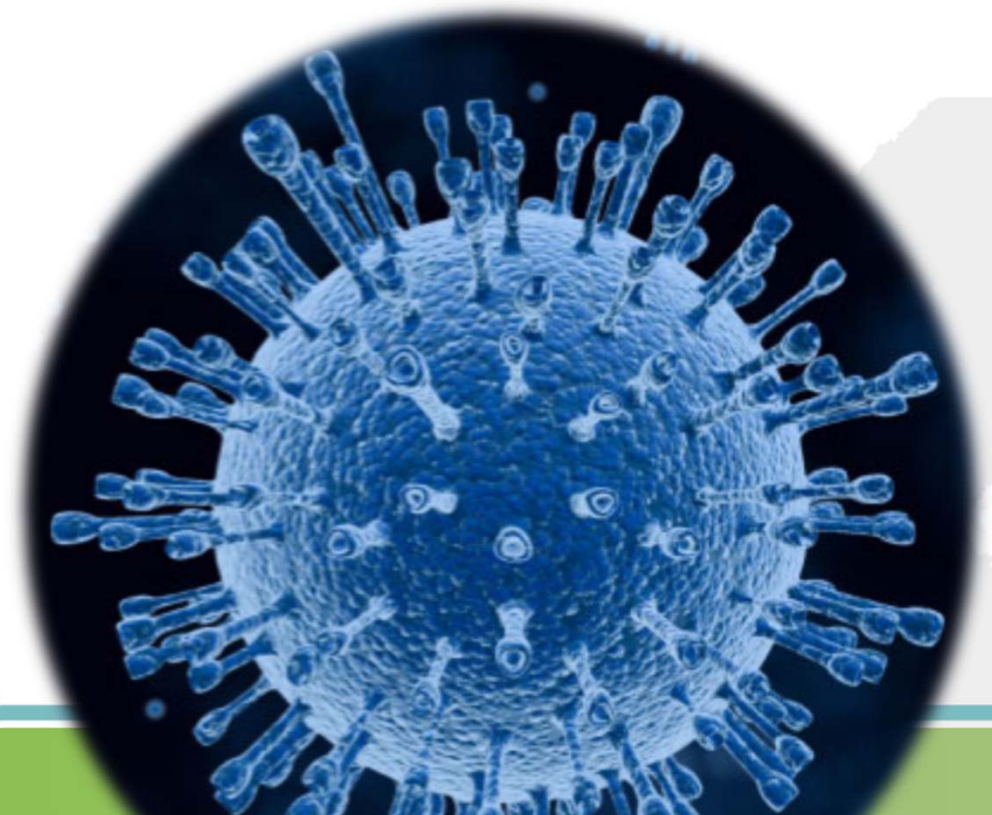
Although preventable through public health measures, significant HIV transmission continues in the EU/EEA

- During the past decade (2006-2015) in the EU/EEA:
 - Sex between men accounted for the majority of cases diagnosed in 2015 (42%) and is the only group where HIV infections have increased
 - Heterosexual cases declined, driven by a decline among those from countries with generalised HIV epidemics
 - Still, 37% of HIV diagnoses in 2015 were among people originating from outside the reporting country
 - HIV cases attributed to injecting drug use continued to decline over the last decade, despite some localised outbreaks
 - Testing opportunities need to improve - nearly half (47%) of those diagnosed in 2015 were diagnosed late (CD4 cell count of $<350/\text{mm}^3$ at diagnosis).

Hepatitis B



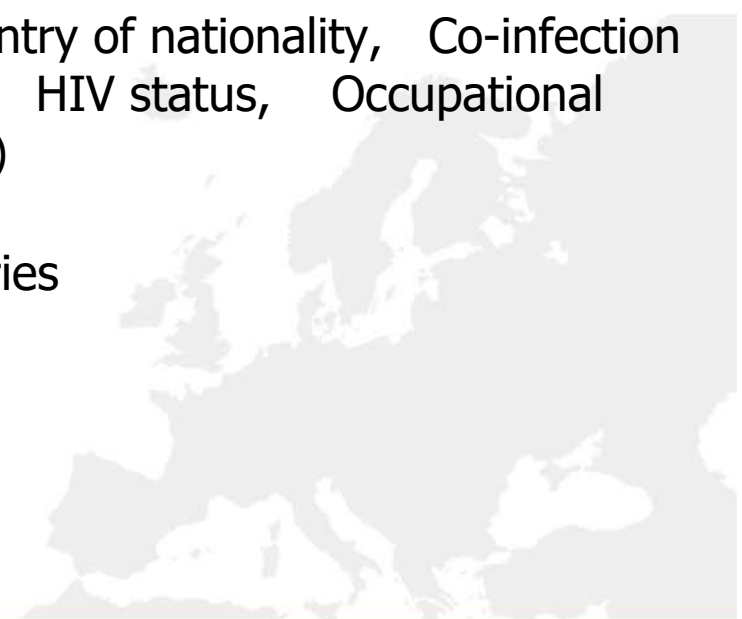
Hepatitis C



Limitations of the data

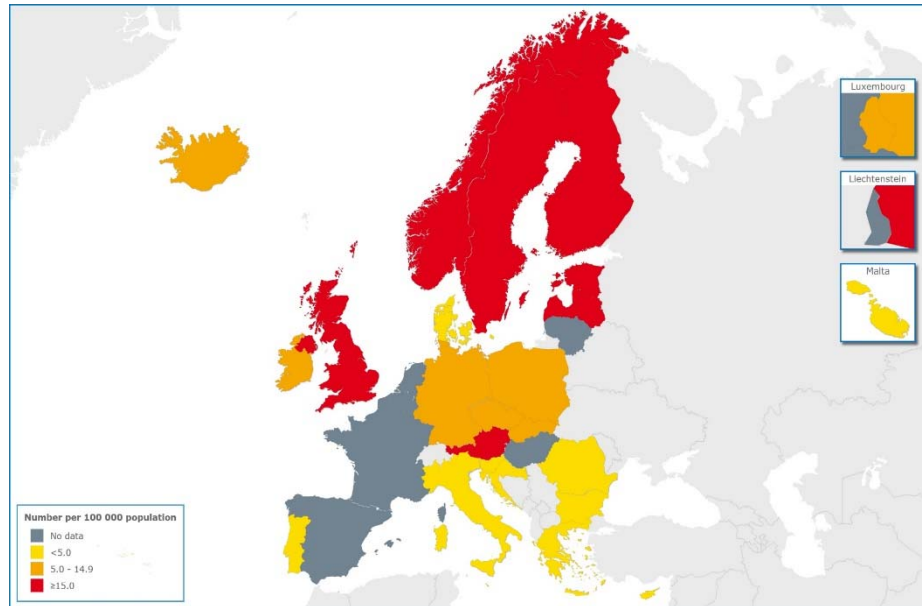


- Due to the largely **asymptomatic** nature of hepatitis infections, data are strongly correlated to local testing practices
- Challenges remain implementing **standard case definitions** - different case definitions used by countries (despite there being an official EU definition)
- Data **completeness** low for many variables:
Transmission, genotype, complications, country of nationality, Co-infection (HCV status for HBV cases and vice-versa), HIV status, Occupational hazard (sex worker, healthcare worker, etc)
- **Under-reporting major issue** for some countries



Notification rate and prevalence of chronic HCV infection, EU/EEA

Rate of reported HCV cases*, 2015

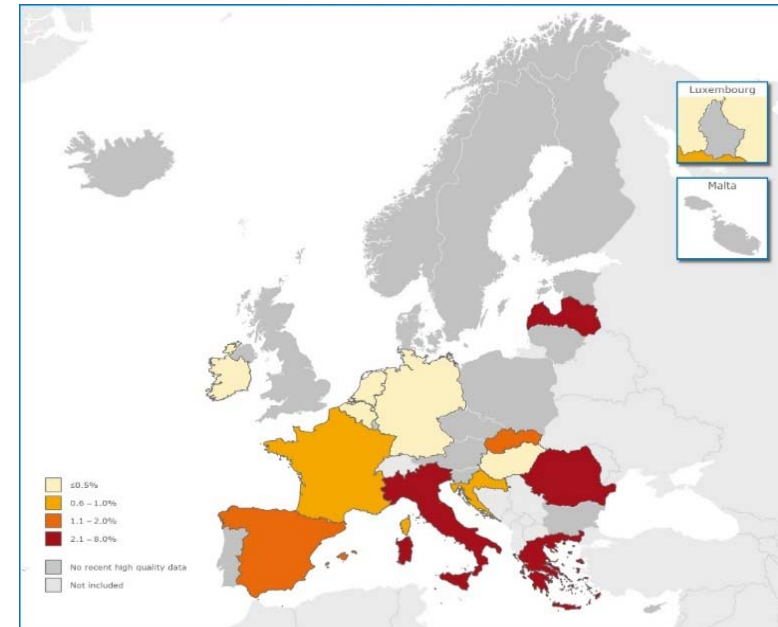


*Countries included if their surveillance systems captured data on both acute and chronic cases.

34 651 cases (8.6 cases per 100 000)

- 346 (1%) Acute
- 4 394 (13%) Chronic
- 24 087 (70%) Unknown/unspecified

Prevalence of HCV infection*, 2005-2015



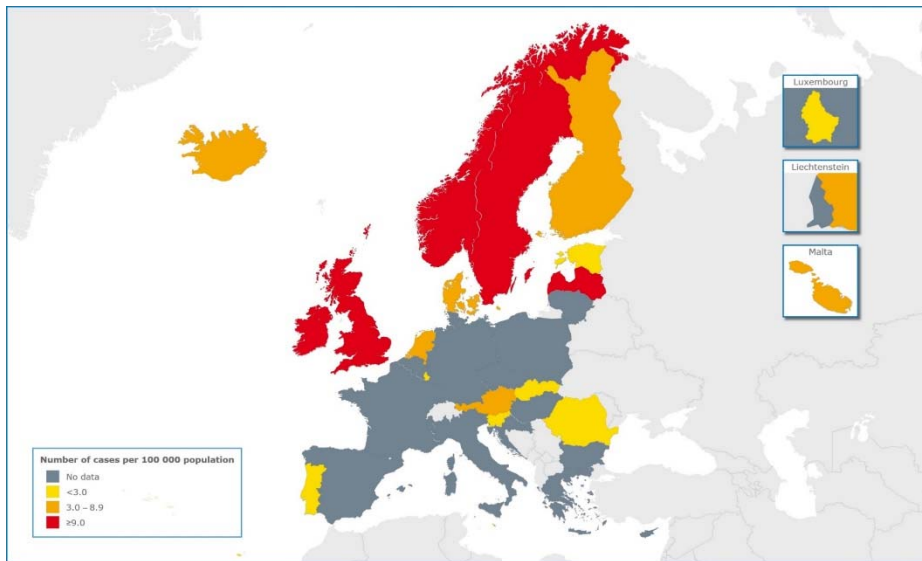
*HCV infection was defined as presence of anti-HCV antibodies in serum, blood or saliva

1.1% (95% CI: 0.9–1.4),

5.6 million anti-HCV positive individuals

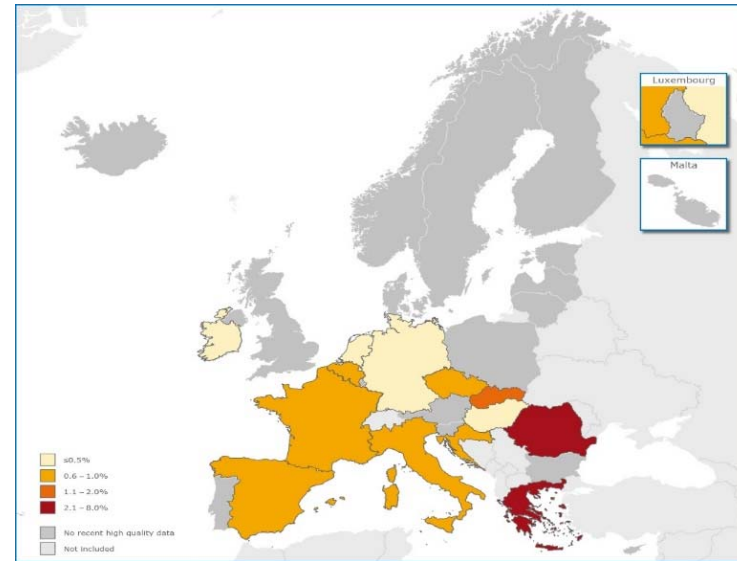
Notification rate and prevalence of chronic HBV infection, EU/EEA

Rate of reported chronic HBV cases*, 2015



*Data for UK exclude Scotland

Prevalence of chronic HBV infection*, 2005-2015



* Chronic HBV infection was defined as presence of HBsAg in serum or blood

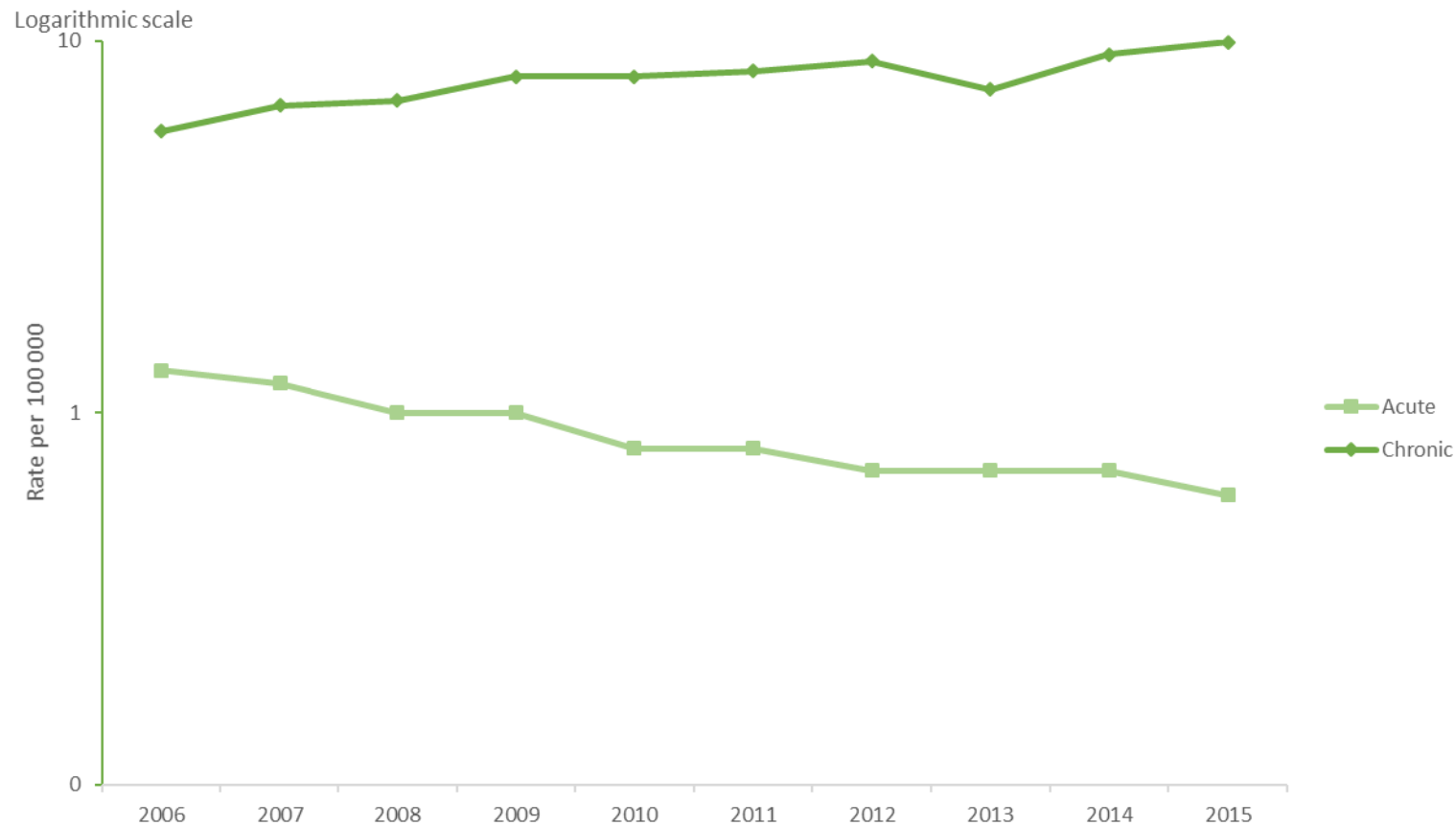
24 573 cases (4.7 cases per 100 000)

- Acute: 2 505 (10%)
- Chronic: 15 595 (64%)
- Unknown: 4 777 (20%)

0.9% (95% CI: 0.7–1.2)

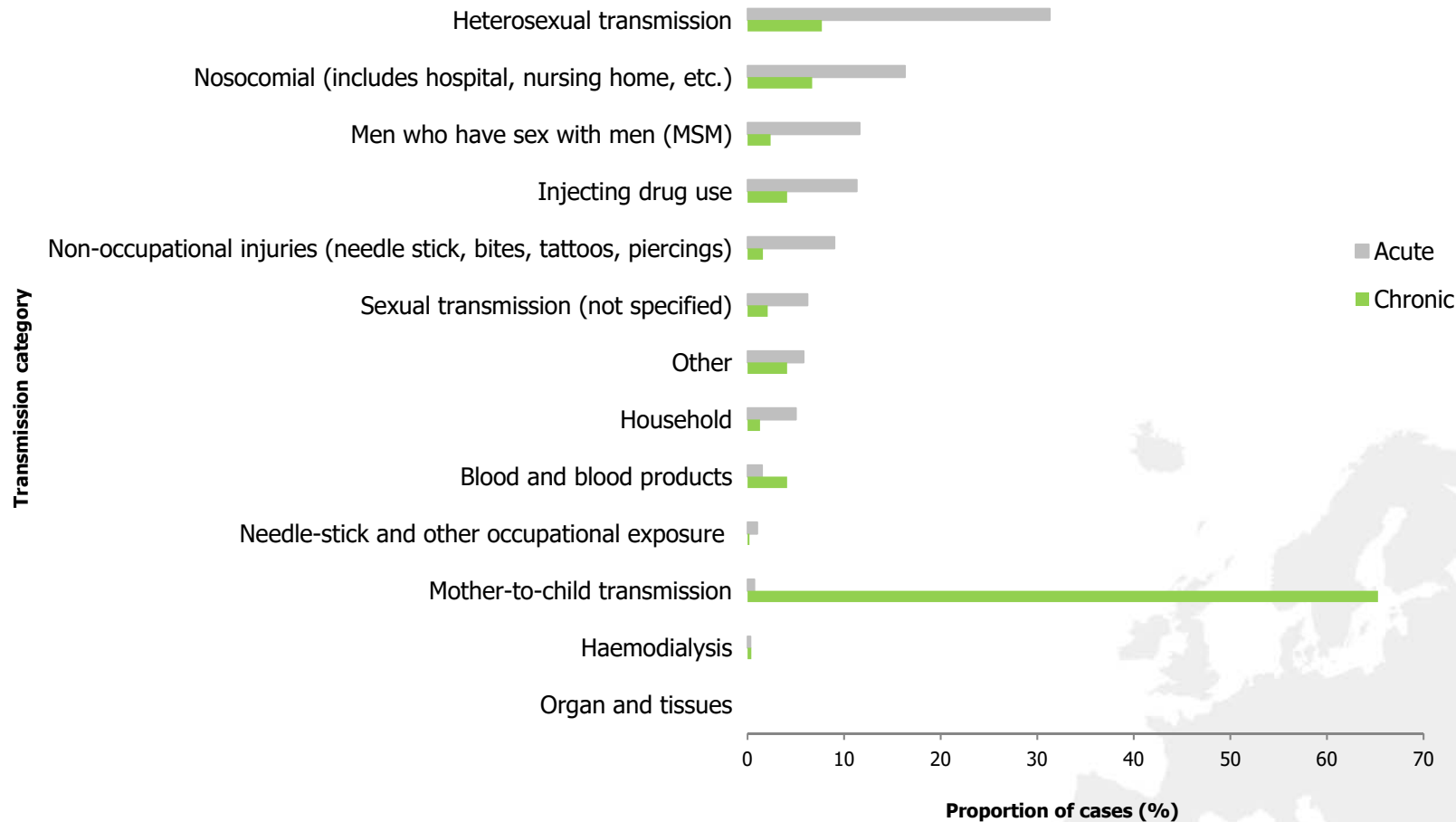
4.7 million HBsAg positive individuals

Rates of acute plus chronic hepatitis B in EU/EEA countries, 2006-2015



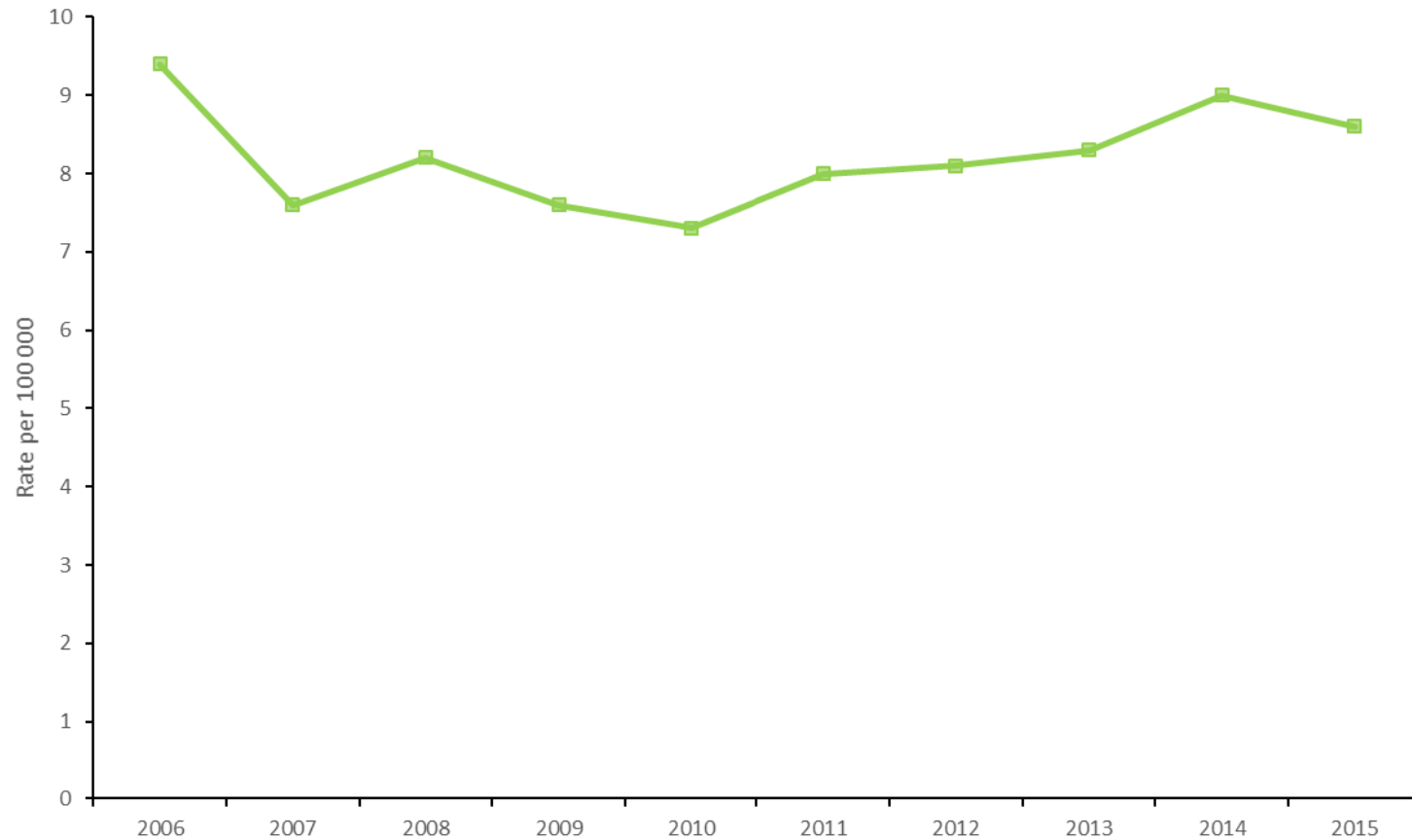
Source: Country reports from: Austria, Bulgaria, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and the United Kingdom (Note that UK data exclude Scotland).

Reported transmission category for acute and chronic hepatitis B cases, 2015



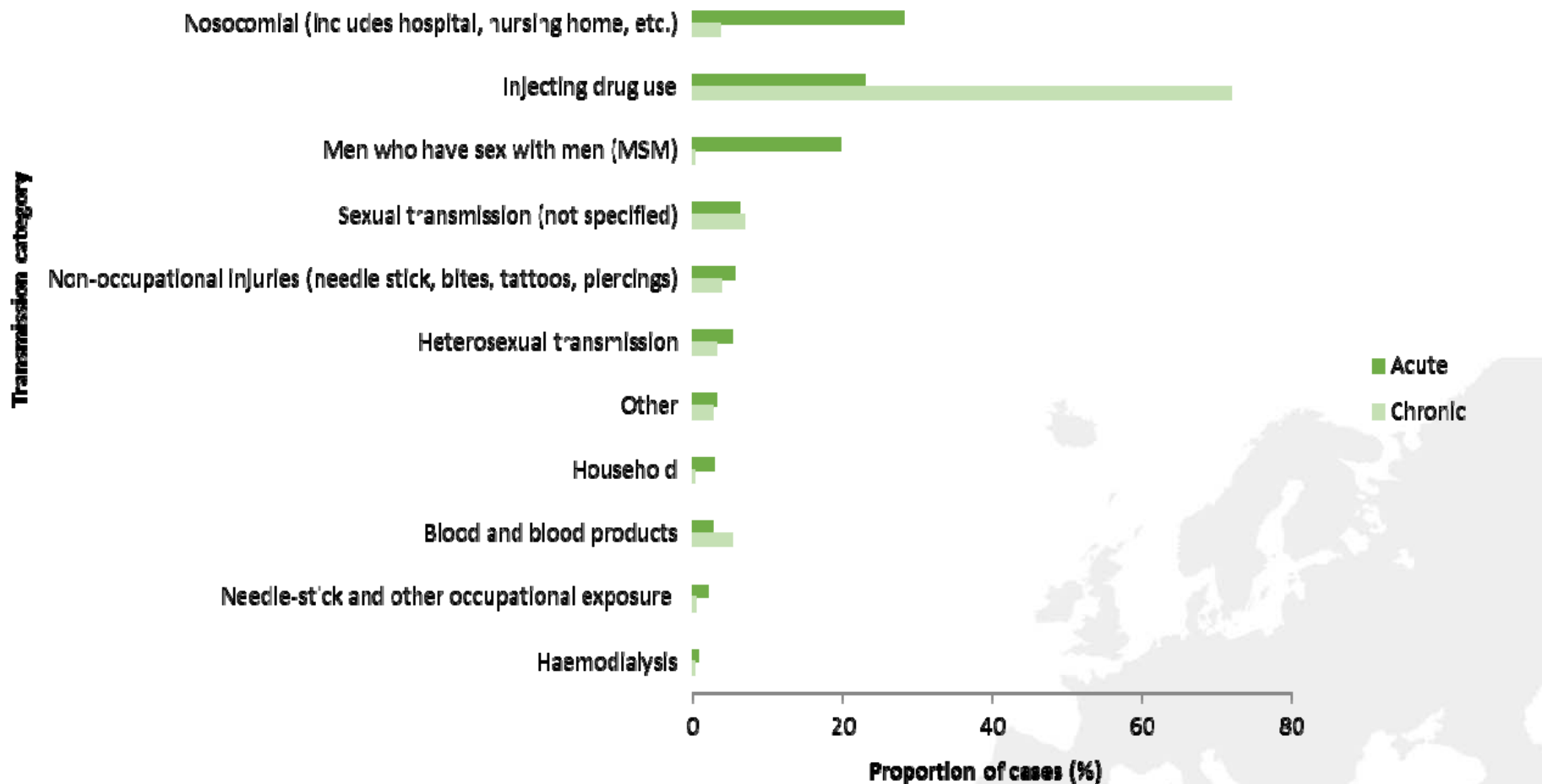
Source: Country reports from: Austria, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Sweden, and the United Kingdom (UK data exclude Scotland).

Rate of (all) reported hepatitis C cases EU/EEA, 2006-2015



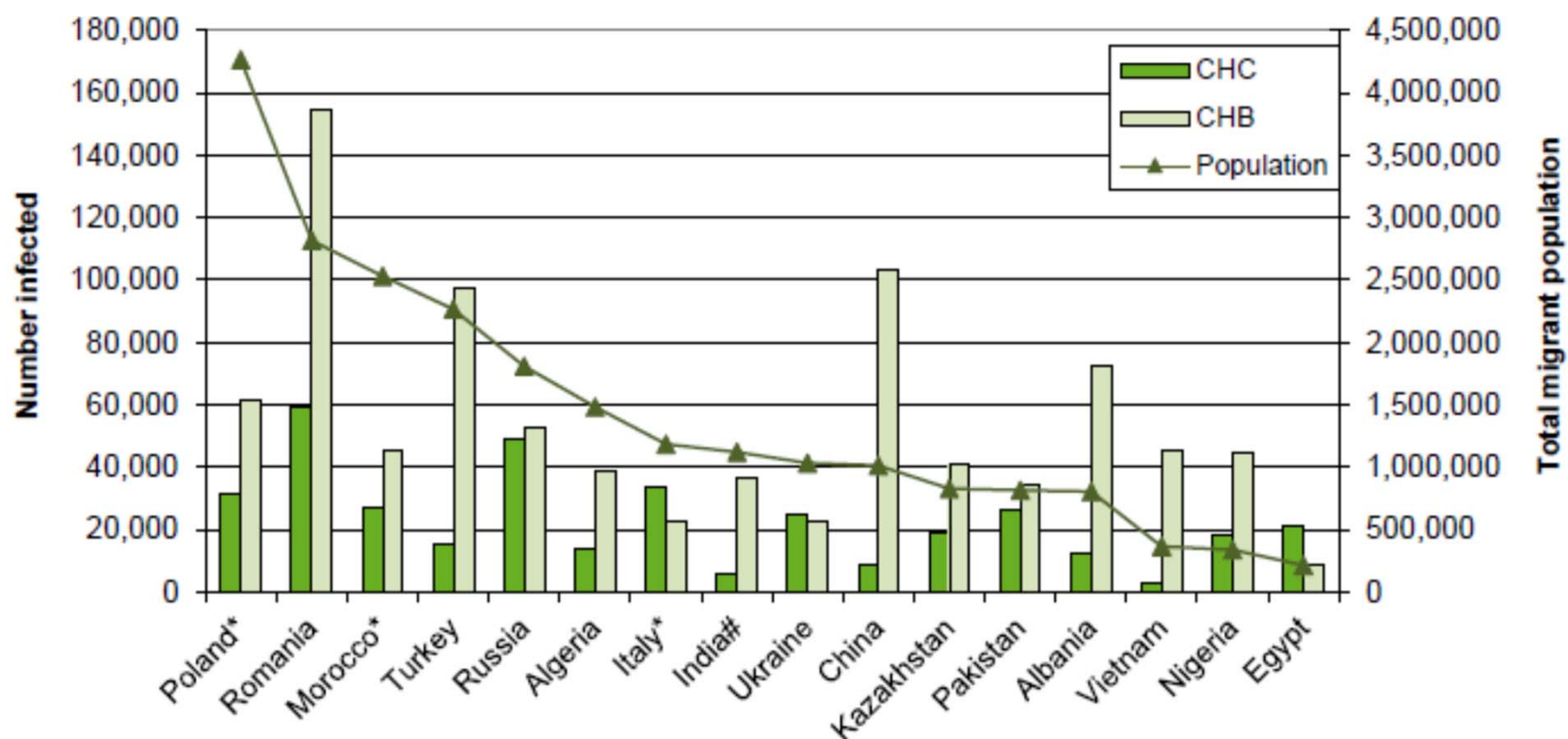
Source: Country reports from: Austria, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Sweden, and the United Kingdom.

Reported transmission category for acute and chronic hepatitis C cases, 2015



Source: Country reports from: Austria, Denmark, Estonia, Hungary, Ireland, Italy, Latvia, Malta, Netherlands, Portugal, Romania, Slovakia, Slovenia, and the United Kingdom.

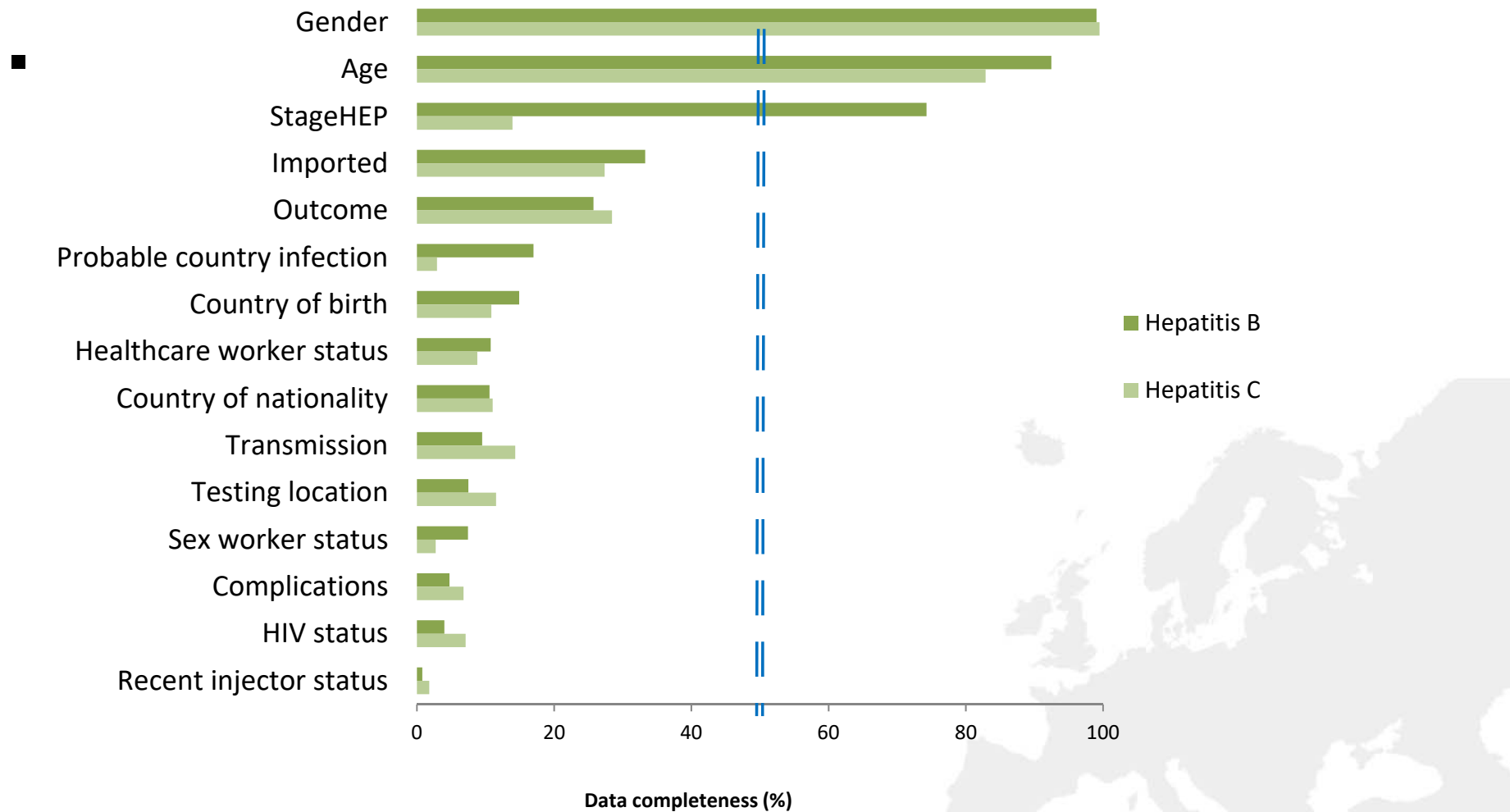
Estimated numbers of chronic HBV and HCV cases among migrant communities, EU/EEA



* low-endemic country for HBV (HBsAg prevalence <2%)
low-endemic country for HCV (anti-HCV prevalence <1%)

Migrant defined as person born outside of the country of residence

EU surveillance of hepatitis B and C: data completeness in 2015



Conclusions



High numbers of newly diagnosed hepatitis B and C cases still being notified in EU/EEA

- Hepatitis C notification rate twice the hepatitis B notification rate
- Chronic cases dominate across both diseases – acute 'hard to catch'?
- Marked variation between countries in rates and quality of data
- Imported cases are significant, especially for hepatitis B
- Surveillance data still has many limitations – time for a new approach?



Fast-track the end of AIDS in the EU
practical evidence-based interventions



MALTA EU 2017

St. Julians, 30-31 January 2016

Scope of the meeting:

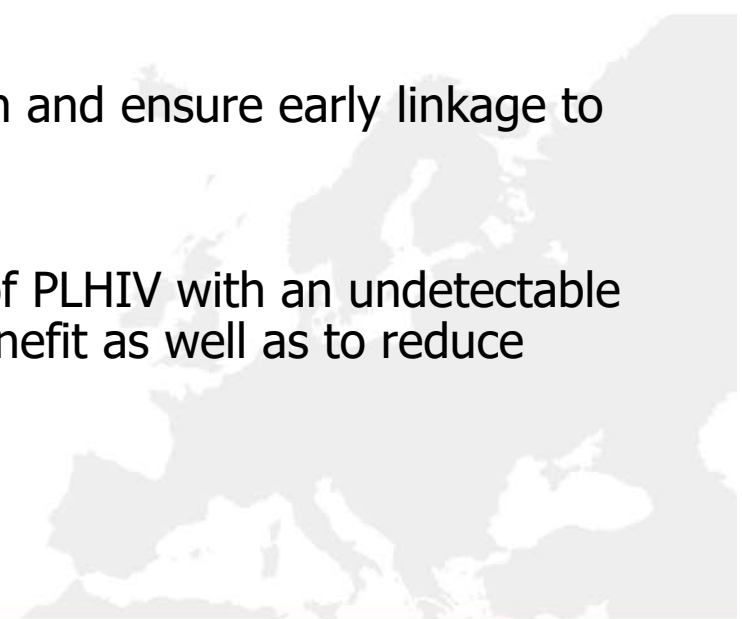


- Expert discussion on how the EU can improve its response to HIV using evidence based strategies

- Focus on:
 - **HIV prevention**, both in terms of coverage and uptake, especially those targeting men who have sex with men, migrants and people who inject drugs;

 - **HIV testing**, to reduce the undiagnosed fraction and ensure early linkage to care for people living with HIV (PLHIV);

 - **HIV treatment**, to ensure that the proportion of PLHIV with an undetectable viral load is increased, both for their personal benefit as well as to reduce future HIV transmission.



Key conclusions - HIV prevention



- Effectiveness of combination prevention interventions targeting populations at risk but 2 out of 3 countries in the region do not have a comprehensive package to scale
- Benefit of community engagement at all levels, including community-based service delivery and community led interventions, essential to reach populations at risk
- Expanding epidemics among men who have sex with men: increase the uptake and funding for the range of proven and effective interventions such as condom programming and sexual health education across the region
- PrEP as part of comprehensive sexual health care and combined with other prevention interventions (eg condoms) a "must" - strong evidence, but only two countries provide national access for at risk populations. Main barriers: pricing and service delivery
- Up to two thirds of HIV infections among migrant populations acquired post-migration. Need for prevention tailored to the diverse needs of the heterogeneous migrant populations, including MSM migrants.
- Great progress on harm reduction for people who inject drugs, but high prevalence and challenge of new stimulants requires sustainable long term programmes. Joint action works well to overcome barriers through sharing of lessons learnt.

Key conclusions - HIV testing



- Overwhelming evidence of early diagnosis and treatment to enable normal life, increase life expectancy and prevent transmission
- Major gaps in access and uptake of HIV testing for key populations
- Needs for diversified and tailored approaches to HIV testing, in particular strengthening community based service delivery (check points), self testing, home sampling and sensitization of health care providers.
- Lack of legal framework for rapid and de-medicalised testing, stigma and discrimination, price of test kits, distance and other barriers must be addressed.
- Community based testing a bridge to provide a comprehensive sexual health package, including access to PrEP, condom promotion, STI screening, linkage to care

Key conclusions - HIV treatment



- Effectiveness of (early) treatment to improve health outcomes for the patient and effectively block transmission - need for clear and strong message
- Late diagnosis still a major problem for all groups, and particularly for migrants
- Data availability on continuum of care greatly improved, but gaps in estimates of PLHIV, viral suppression.
- Europe getting close to 90-90-90, but more ambition required to fast track the end of HIV as a problem. Should consider moving to 90% viral suppression for all people living with HIV, and look at 90-90-90 for specific locations and key populations.
- Affordability and pricing of medicines, including PrEP, a major barrier and must be addressed at EU level – possibly through joint procurement or multicountry negotiation with pharmaceutical industry

Next steps

The Government of Malta will take the main points,
summerised in the form of a technical declaration and



raise these issues at the next Health Council (March 2017)

A brief meeting report will also be published



Acknowledgements



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Thank you also to

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www.ecdc.europa.eu

Contact: stihivhep@ecdc.europa.eu