





HIV infection in children and adolescents in EU/EEA

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What is ECDC?

EUROPEAN CENTRE FOR DISEASE PREVENTION AND CONTROL

- European Union independent agency active since 2005
- Our mission is to strengthen EU/EE/ defences against infectious diseases though surveillance, scientific advice, technical assistance
- Collects HIV data from the 31 EU/EEA countries (up to 54, jointly with WHO Europe)





SURVEILLANCE REPORT

HIV/AIDS surveillance in Euro



ECDC EVIDENCE BRIEF

HIV prevention in Europe

Monitoring implementation of the Dublin Declaration on partnership to fight HIV/AIDS in Europe and Central Asia – 2014 progress report

Dublin Declaration

This ECDC evidence brief summarises key issues and priorities for action in Europe. It draws on country data reported to ECDC for Dublin Declaration monitoring and UNAIDS global reporting in 2012 and 2014 and surveillance data reported by countries to ECDC and



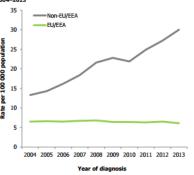
Following ECDC's 2010 and 2012 progress reports, a new series of thematic reports and evidence briefs present the main findings, discuss key issues, and assess the progress made since 2012 in Europe's response to

Why is HIV prevention important in Europe?

The number of people who are newly infected with HIV each year continues to be unacceptably high. Despite the existence of proven prevention interventions, more than 136 000 people were newly infected with HIV in Europe in 2013.

Rates of new infection show no signs of declining. During the last decade the rate of new infections has remained unchanged in the EU/EEA and has increased by 126% in non-EU/EEA countries.

Figure 1. Rate of newly reported HIV cases in EU/EEA and non-EU/EEA countries



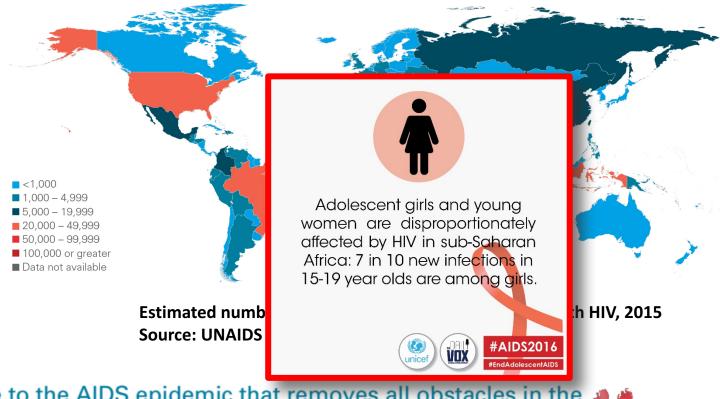
¹ European Centre for Disease Prevention and Control/WHO Regional Office for Europe. HIV/AIDS surveillance in Europe 2013 Stockholm: ECDC; 2014



Global data on HIV among children and adolescents

In 2015,

- Living with HIV: 1,8 million children and 1,8 adolescents
- New HIV infections: 150,000 children and 250,000 adolescents
- AIDS-related deaths: 110,000 children and 41,000 adolescents
- Sub-Saharan Africa most affected (low access to ART, 20%; testing, 9%-13%)
- 70% reduction in new HIV infections among children (0-14) since 2001, PMTCT





We need a people-centred response to the AIDS epidemic that removes all obstacles in the path of people's access to HIV prevention and treatment services.

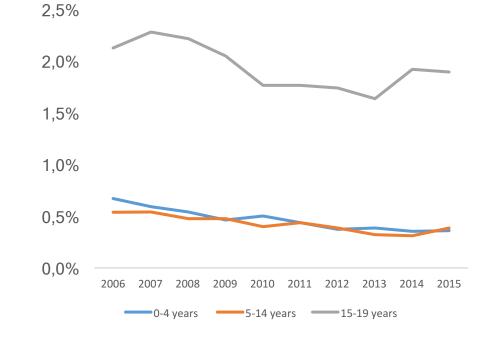
In EU/EEA,

EUROPEAN CENTRE FOR DISASE PREVENTION AND CONTROL OF

HIV diagnoses among children and adolescents (0-19 years)



- In 2015: **787** new HIV diagnoses (2.6% of total **29 747** HIV reports)
- Between 2006-2015: **8617** new HIV diagnoses
 - 1418 (16%) 0-4 years
 - 1293 (15%) 5-14 years
 - 5906 (69%) 15-19 years



EU/EEA: 31 Member States >500 million population

8617

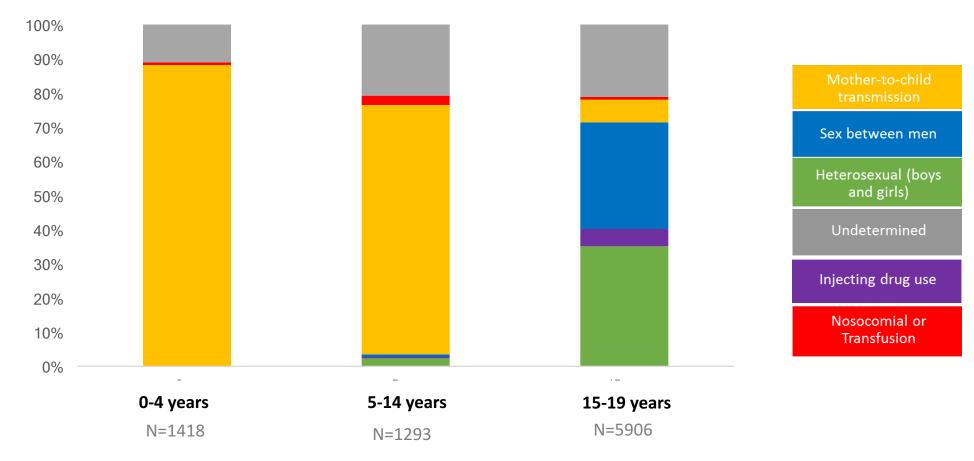
Several questions to answer:

- How did they get infected?
- Who are the HIV-positive children and adolescents?
- Trends?
- Public health implications?

How did the children and the adolescents get infected?

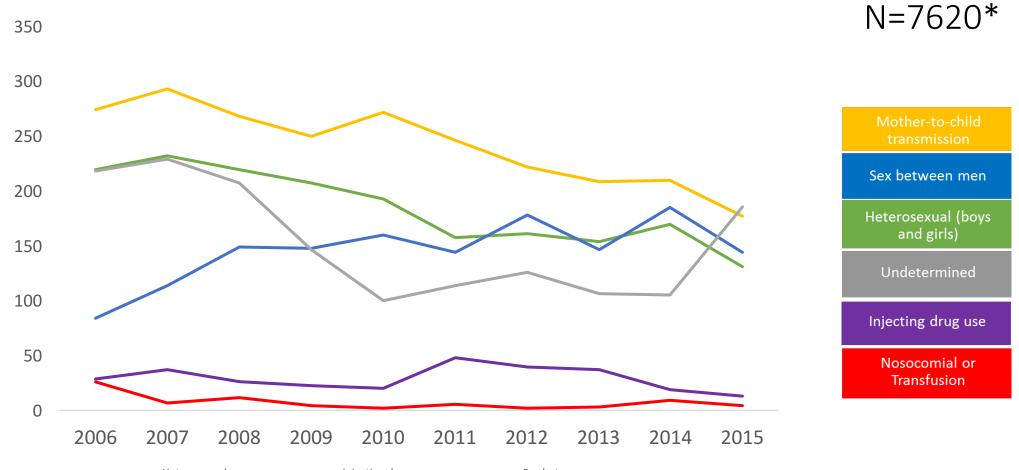


Modes of transmission of HIV infections diagnosed among children and adolescents (0-19 years), 2006-2015, EU/EEA, N=8617



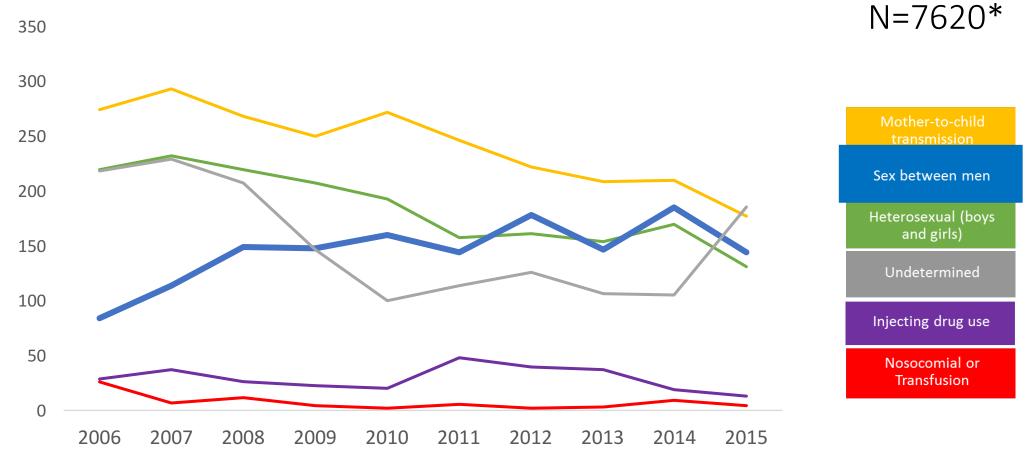
Trends of HIV diagnoses among children and adolescents (0-19 years), by mode of transmission, 2006-2015, EU/EEA







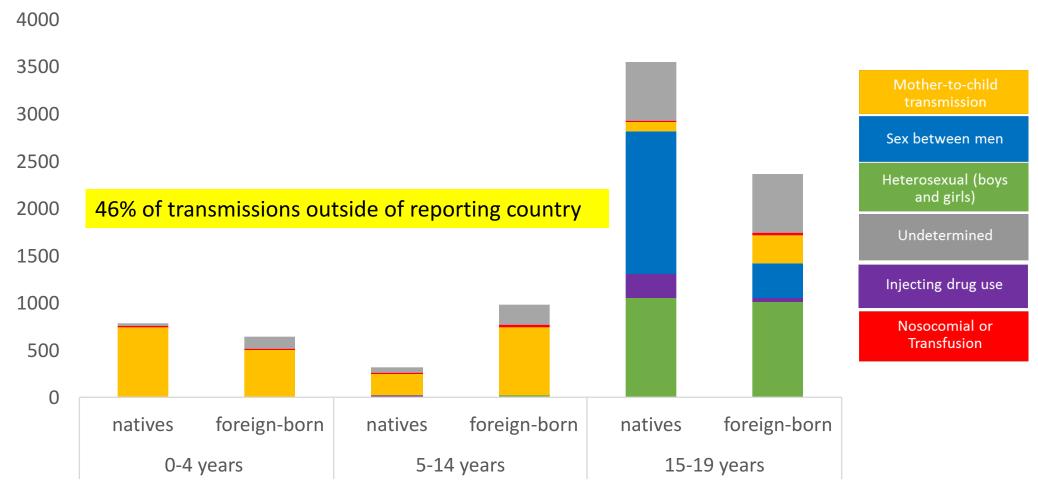




"Native" vs. "migrant" children diagnosed in EU/EEA



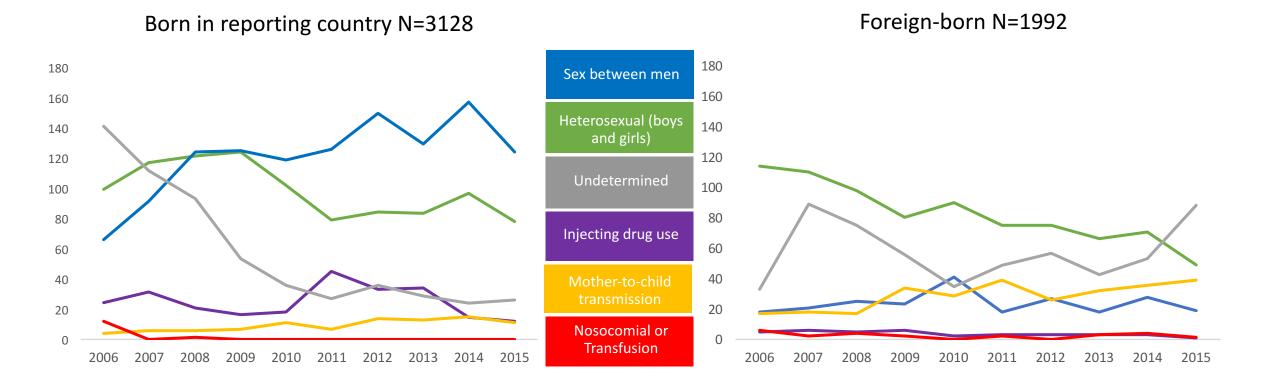
HIV-infections diagnosed among children and adolescents (0-19 years), by region or origin and modes of transmission 2006-2015, EU/EEA, N=8617



Trends in adolescents?



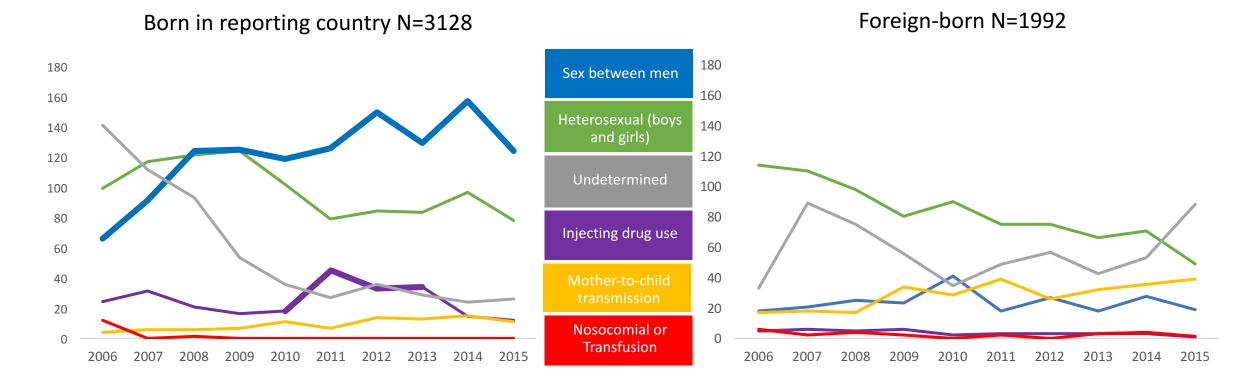
Modes of transmission of HIV infection diagnosed among adolescents (15-19 years), by region or origin 2006-2015, EU/EEA, N=5120



Trends in adolescents?



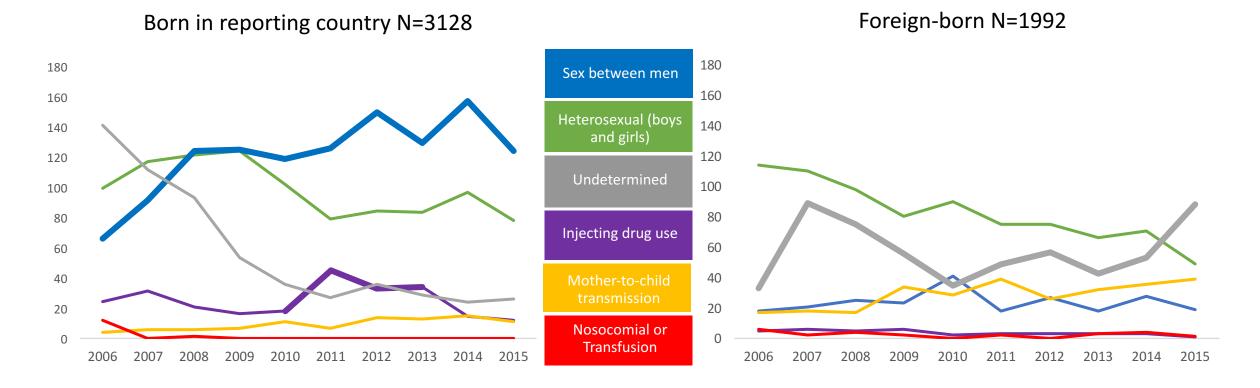
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Trends in adolescents?



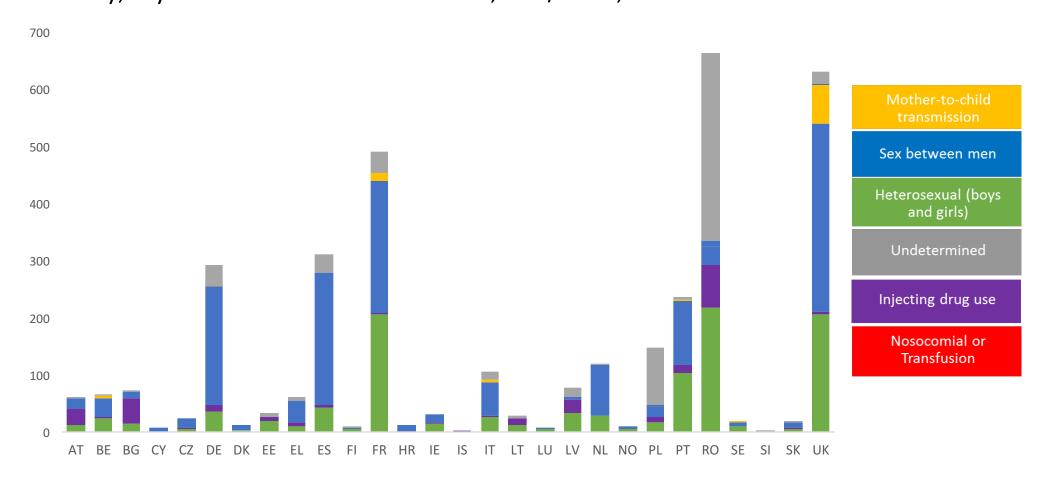
Modes of transmission of HIV infection diagnosed among adolescents (15-19 years), by region or origin 2006-2015, EU/EEA, N=5120



Any differences between countries?



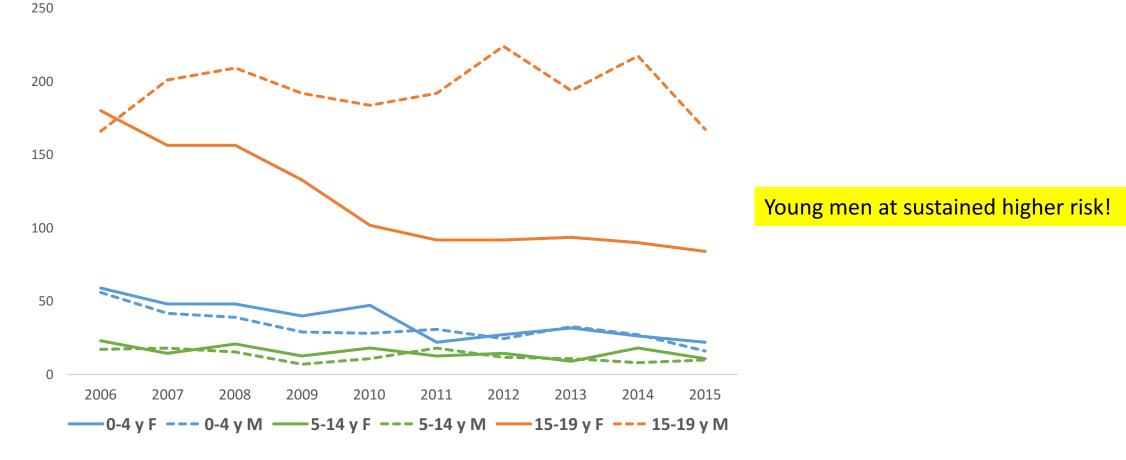
Numbers of HIV diagnoses among 15-19 years olds born in reporting country, by mode of transmission, EU/EEA, 2006-2015 N=3544



Any differences between genders?



HIV diagnoses by age group and **gender** in "native" cases in EU/EEA,2006-2015 N=4102



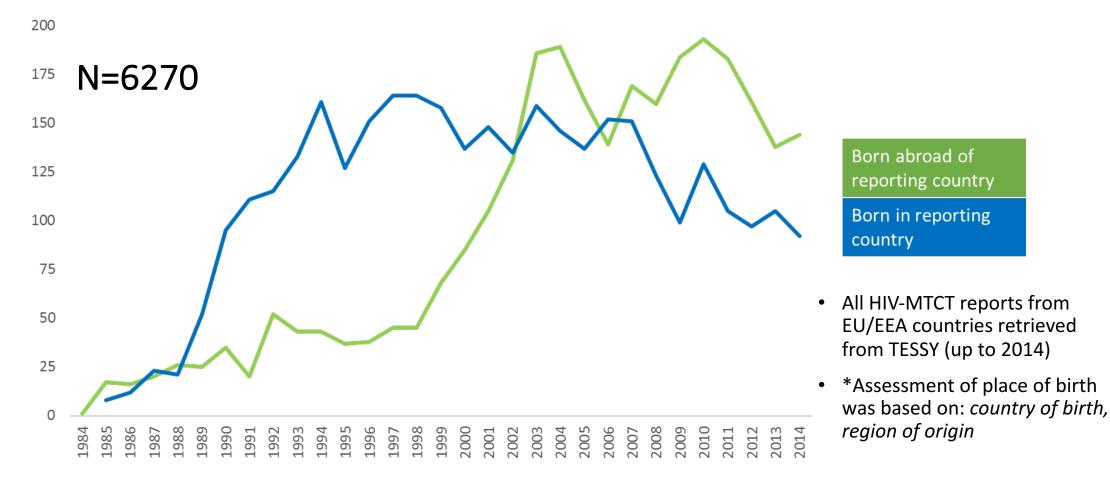


Mother-to-child transmission of HIV in EU/EEA

Analysis of 30-years of surveillance data on HIV diagnoses

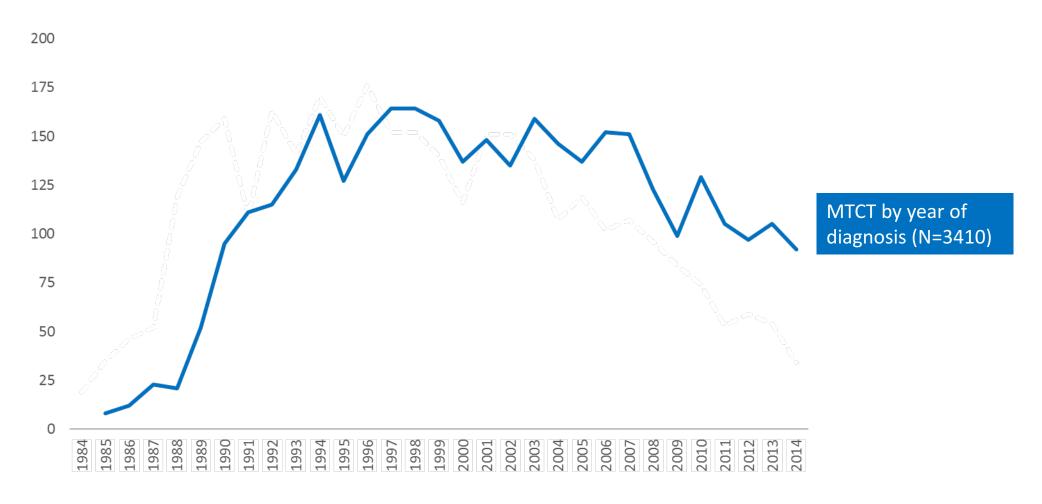
Numbers of HIV-MTCT cases reported by EU/EEA countries, by place of birth* and by year of diagnosis; 1984-2014





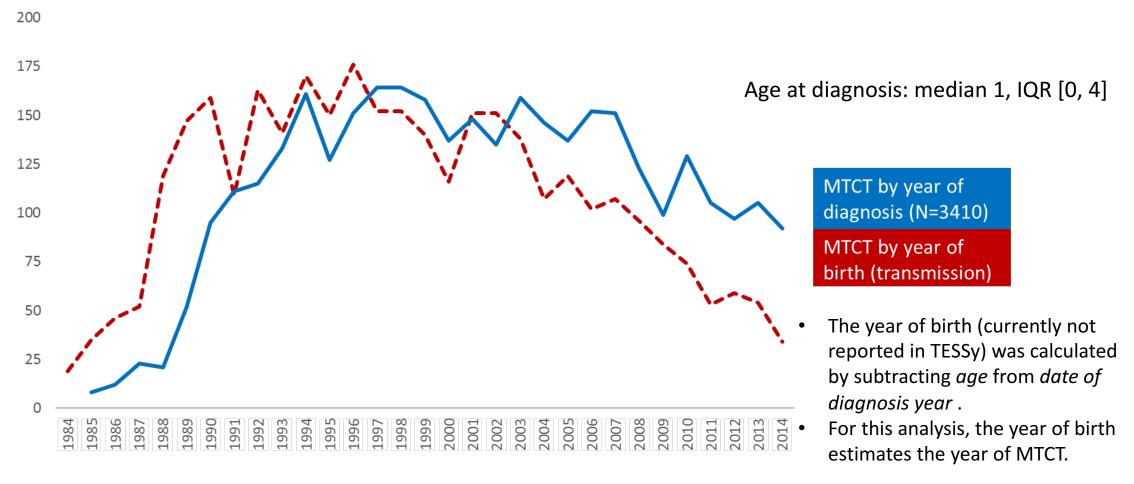
HIV-MTCT cases **born in reporting** EU/EEA countries by year of diagnosis





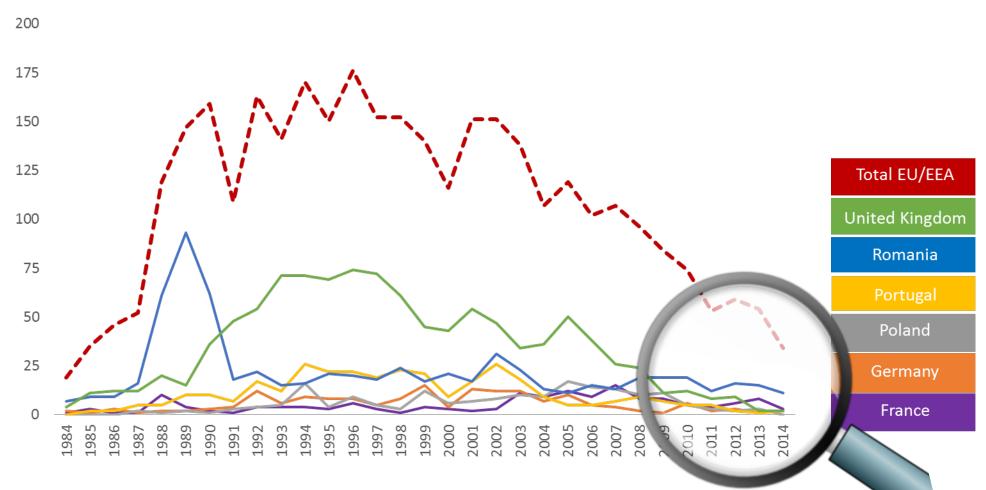
HIV-MTCT cases **born in reporting** EU/EEA countries by year of diagnosis and by calculated* year of birth





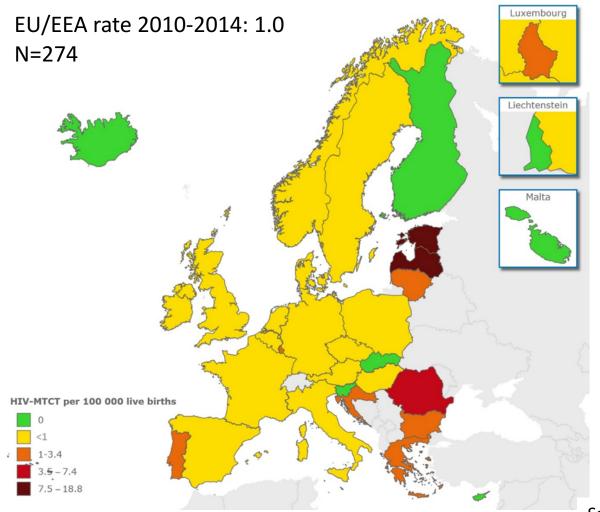
HIV-MTCT "native" cases reported by five countries accounting for 2/3 of all reports, by year of birth (transmission)

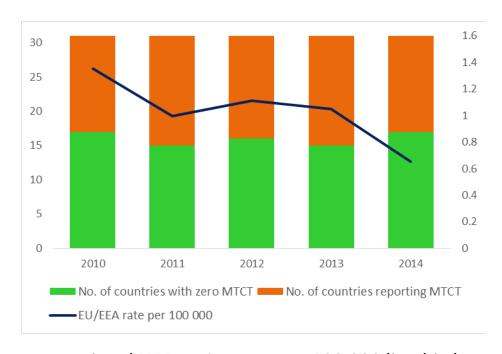




HIV-MTCT in persons **born in reporting** EU/EEA countries, rates per 100 000 live births 2010-2014

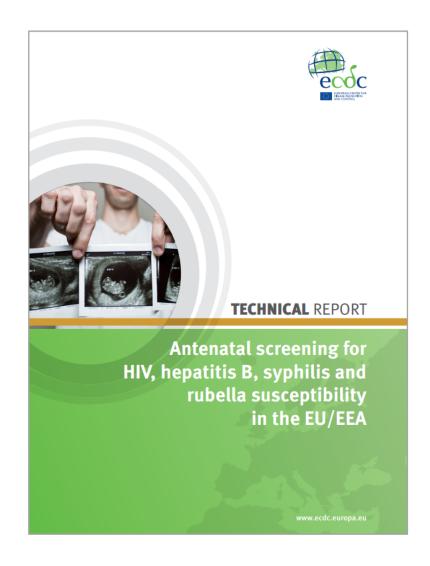






National HIV-MTCT rates per 100 000 live-births (vertical transmission rates) calculated by dividing the number of HIV-MTCT cases born in the reporting country by the number of live births (Eurostat) for the period 2010-2014

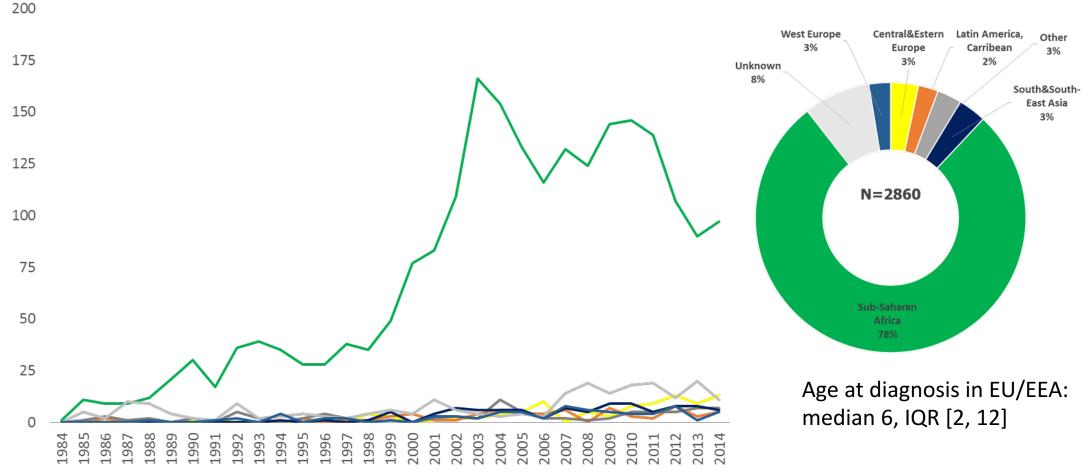
 More on antenatal screening for infections in:



Where are the migrant MTCT cases coming from?

HIV-MTCT **foreign-born** cases diagnosed in EU/EEA by region of origin and year of diagnosis in the reporting country





Key findings and public health implications



- 2.6% of new HIV diagnoses in 2015 among 0-19 years olds
- HIV diagnoses increasing among young MSM (Europeanborn). Targeted prevention strategies, youth-friendly prevention and health-care services (ECDC Guidance HIV and STI prevention among men who have sex with men. 2015)
- HIV-MTCT in EU/EEA-born children is declining and is below the WHO elimination target (<50 per 100,000 LB)
- Antenatal screening to be targeted at subpopulations at risk* (ECDC Guidance Antenatal screening among vulnerable groups, in press)



^{*}ECDC Technical report. Antenatal screening for HIV, hepatitis B, syphilis and rubella susceptibility in the EU/EEA. Stockholm: ECDC; 2016.



Acknowledgements

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- EU/EEA HIV/AIDS surveillance network for providing data to TESSy

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The average time between #HIV infection and diagnosis is nearly 4 years in the EU/EEA. It's always #time2test bit.ly/ECDCestimate

