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WETENSCHAPPELIJK INSTITUUT VOLKSGEZONDHEID

INSTITUT SCIENTIFIQUE

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A. Sasse **BREACH** symposium 24th November 2017



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Aknowledgements:

AIDS Ref. Laboratories

AIDS Ref. Centers

IPH Team

Dominique Van Beckhoven Jessika Deblonde David Jamine Cloë Ost Wim Vanden Berghe Epidemiology of HIV infection

Situation in Belgium, December 2016

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Updated data

<u>Up to 2016</u>:

- HIV diagnoses
- HIV testing

<u>Up to 2015</u>:

- AIDS diagnoses
- Estimation of people living with HIV
- Patients in medical follow-up
- Continuum of care of PLHIV



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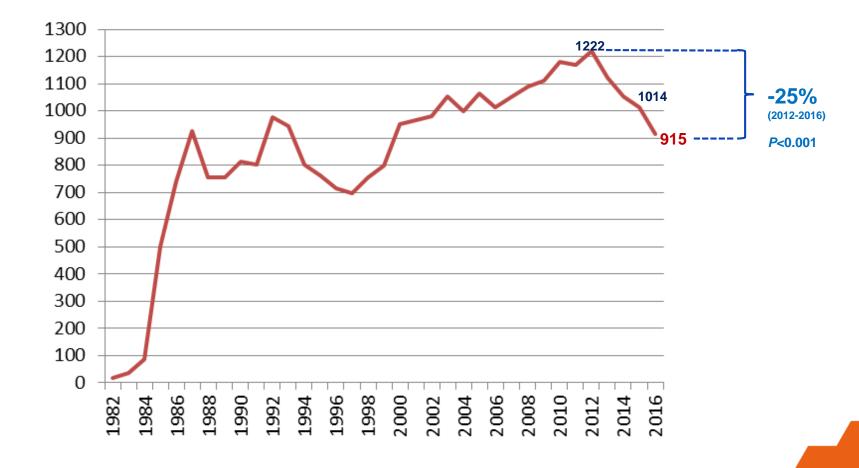
- HIV diagnoses

- Undiagnosed PLHIV
- HIV testing
- Continuum of care
- Other STIs
 - Conclusions

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Number of new HIV diagnoses per year, Belgium, 1982 - 2016

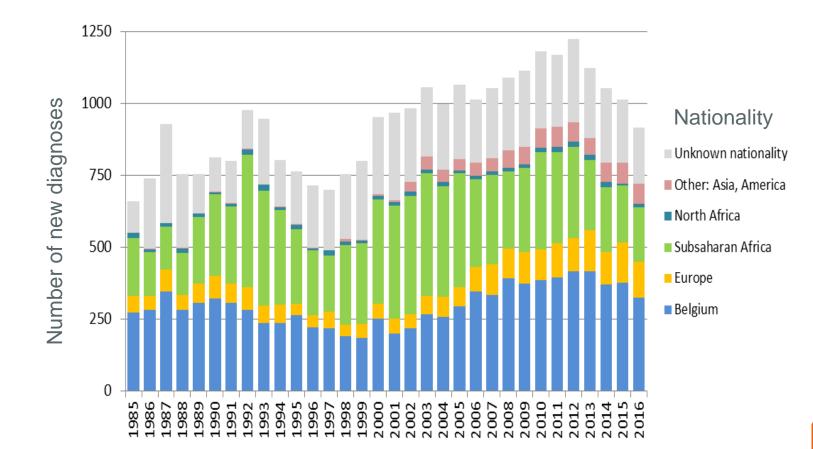




Number of cases

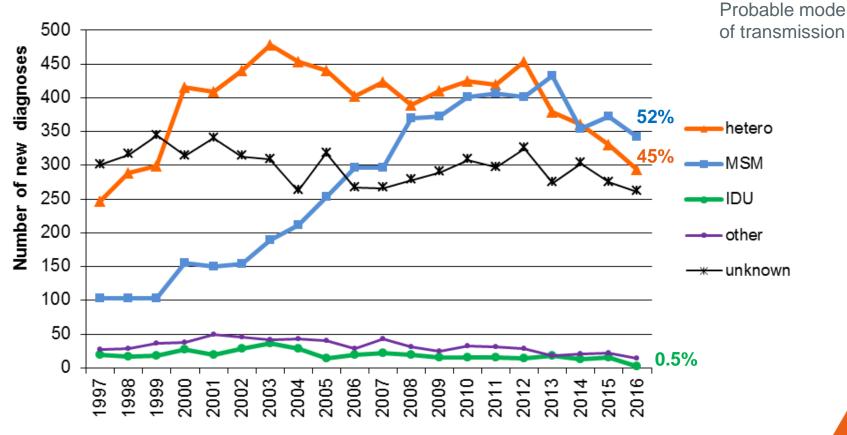
New HIV diagnoses by nationalities (regions), 1985 - 2016





New HIV diagnoses by mode of transmission, Belgium, 1997 – 2016

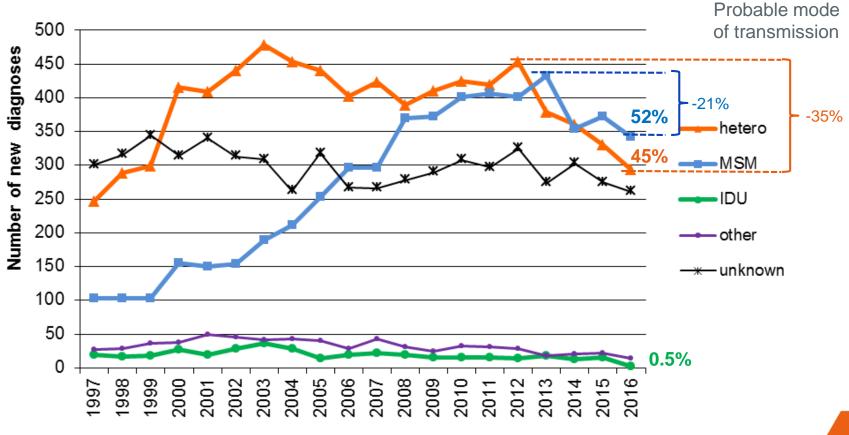




Year of HIV diagnosis

New HIV diagnoses by mode of transmission, Belgium, 1997 – 2016

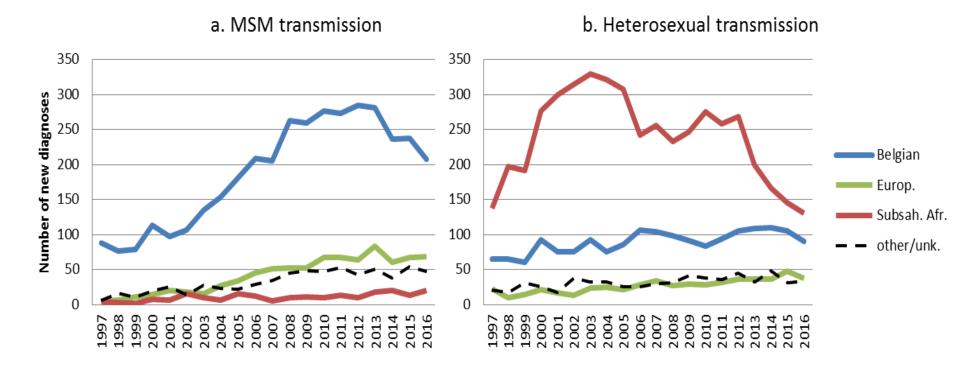




Year of HIV diagnosis

Evolution of HIV diagnoses by probable mode of transmission and nationality (1997-2016)

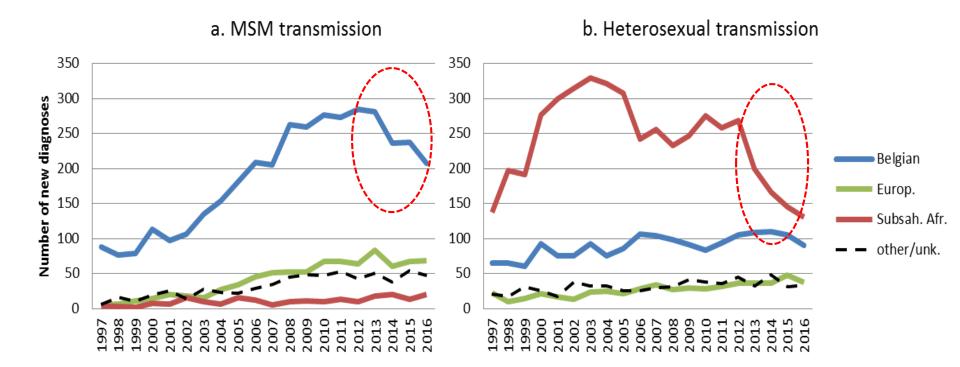




Year of HIV diagnosis

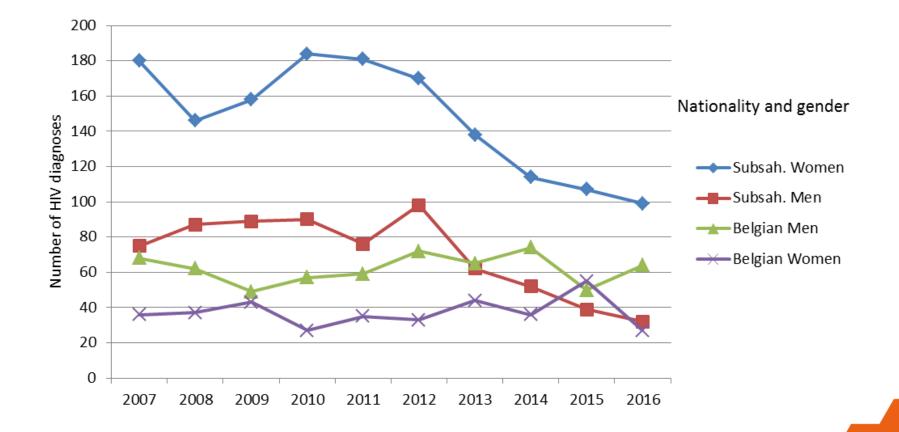
Evolution of HIV diagnoses by probable mode of transmission and nationality (1997-2016)





Year of HIV diagnosis

New HIV diagnoses among heterosexuals, per nationality and gender, Belgium, 2007-2016

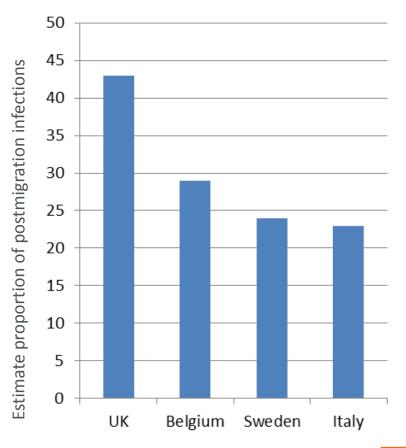


Estimates* of the proportion of migrants who probably acquired HIV after arrival in their country isp of diagnosis (postmigration).

Methods:

Analysis of new HIV diagnosis among migrants diagnosed in 2011. Estimated probable period of HIV seroconversion using modelled CD4 cell count distribution and decline speed after seroconversion.

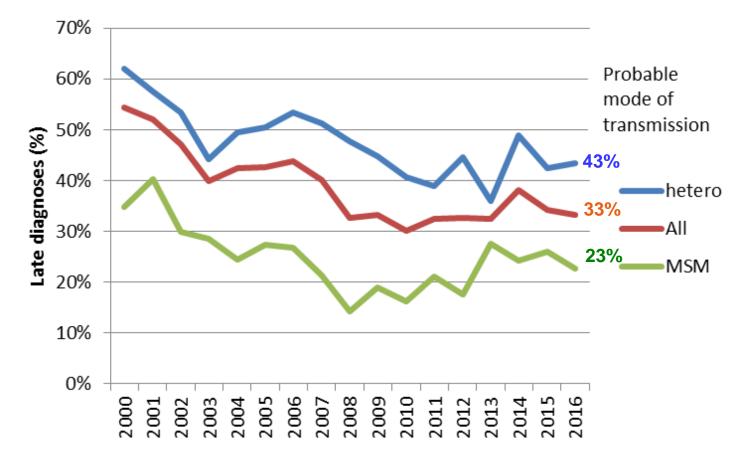
Results: 2,351 migrants recruited. Overall: estimated 38% (range: 32-46%) of diagnosed migrants had probably acquired HIV postmigration; UK : 43% (range: 36-52%) **Belgium : 29%** (26-34%) Sweden : 24% (21- 30%) Italy : 23% (20- 27%)



*Z. Yin Z, Rice B, Marrone G, Sönnerborg A, Suligoi B, Camoni L, Sasse A, Van Beckhoven D, Skingsley A, Noori T, Delpech V. HIV acquisition postmigration: Evidence from four European countries. Abstract. *21st International AIDS Conference*.

Percentage of late presenters for testing* per mode of transmission



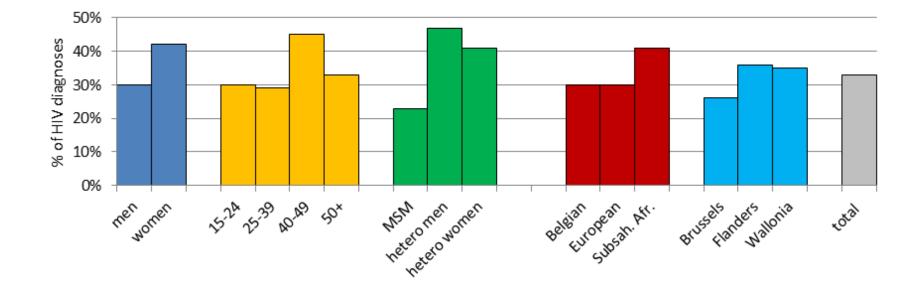


Year of HIV diagnosis

*: <350 CD4/mm³|AIDS + correction according to clinical stage at HIV diagnosis

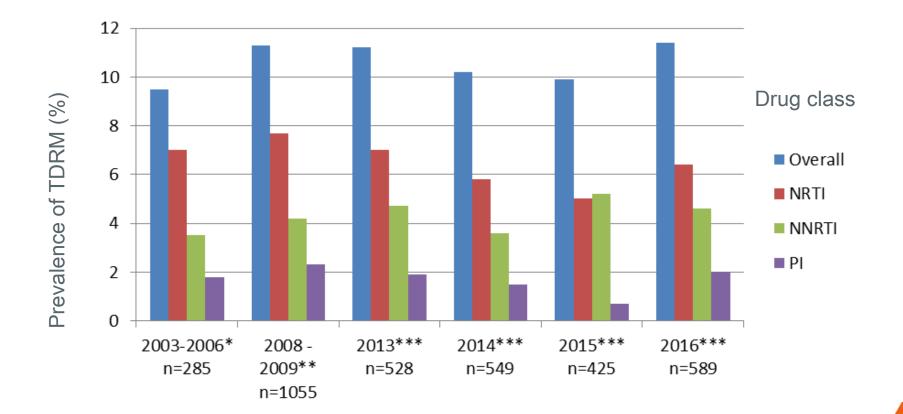
Percentage of late presenters for testing* per sex, age, mode of transmission, nationality and residence





*: <350 CD4/mm³|AIDS + correction according to clinical stage at HIV diagnosis

Evolution of base resistance, Belgium, 2003 - 2016



*Vercauteren J, et al. (2008); **Muyldermans G, et al. (2014); ***Verhofstede C, (pers.com.) .be





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- HIV diagnoses - Undiagnosed PLHIV - HIV testing Continuum of care **Other STIs Conclusions**

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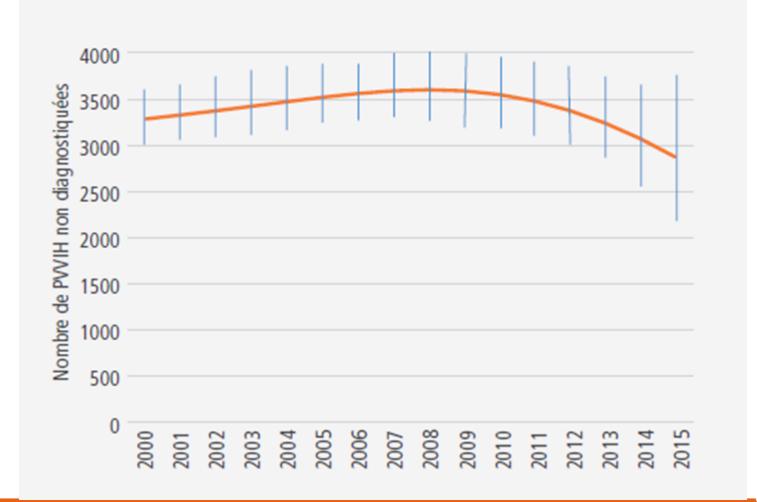
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insurance

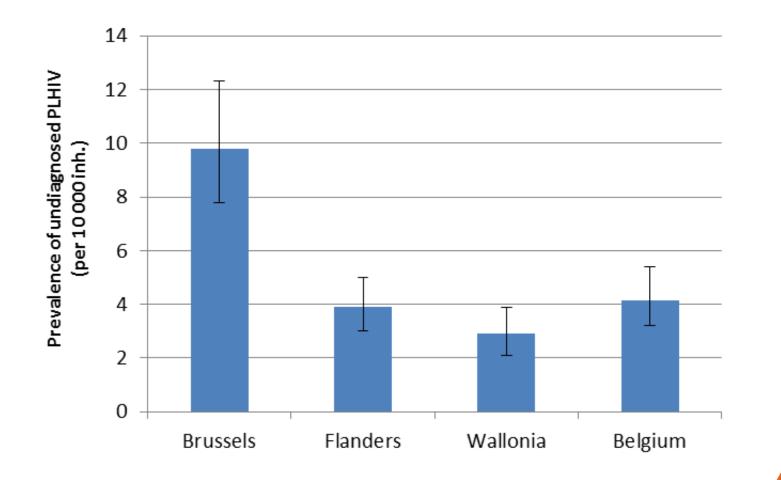
Modelling: Estimated number of undiagnosed PLHIV (CI 95 %), 2000-2015



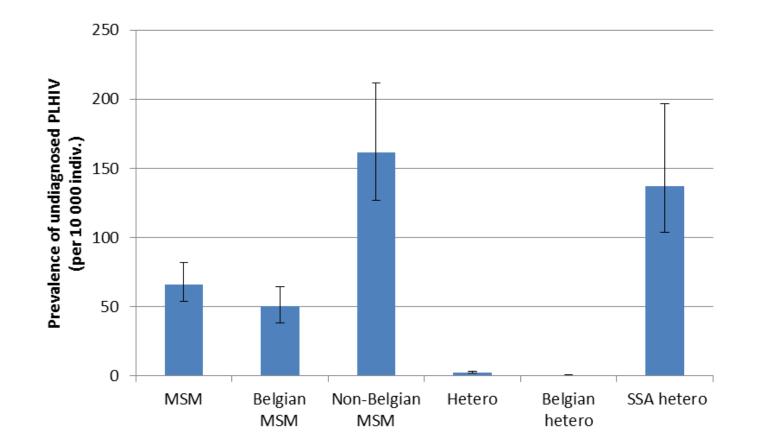


Estimated prevalence of undiagnosed PLHIV in regions per 10 000 inhabitants





Estimated prevalence of undiagnosed PLHIV in risk categories (per 10 000 individuals)





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HIV diagnoses
Undiagnosed PLHIV
HIV testing
Continuum of care
Other STIs
Conclusions

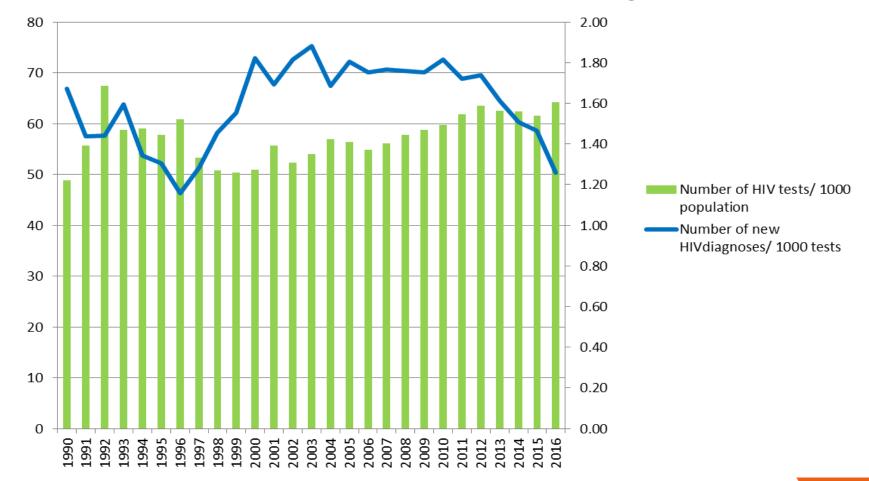
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Rates of HIV testing* and new diagnoses, Belgium, 1990 – 2016



tests/1000 pop.

new diagnoses /1000 tests

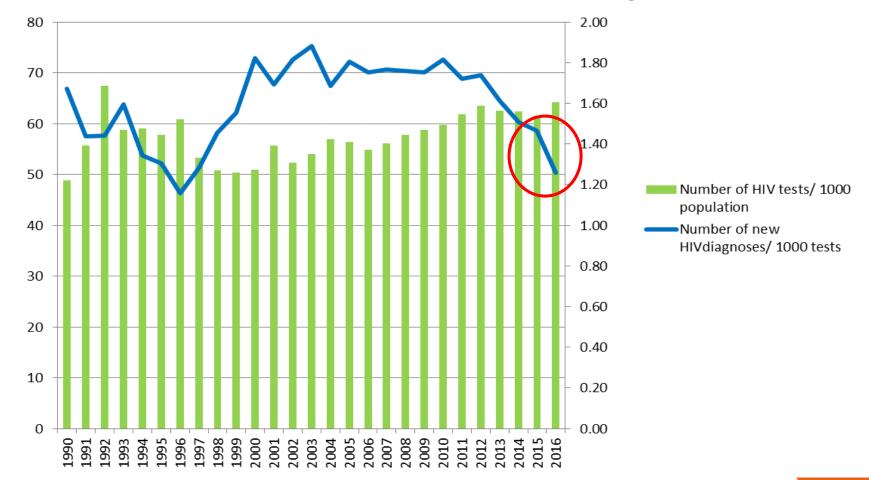


Rates of HIV testing* and new diagnoses, Belgium, 1990 – 2016



tests/1000 pop.

new diagnoses /1000 tests



*HIV screening tests reimbursed by INAMI-RIZIV

Yearly diagnosed fraction (YDF)

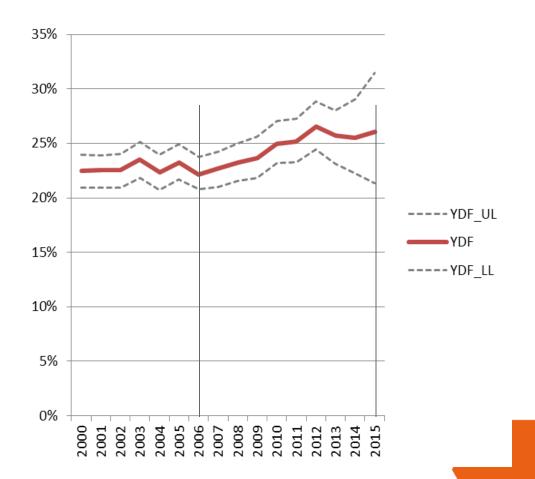


new diagnoses = ----new diag. + estim. undiag.

YDF 2006: 22%

YDF 2015: 26%

Testing ---- > --- hidden epidemic





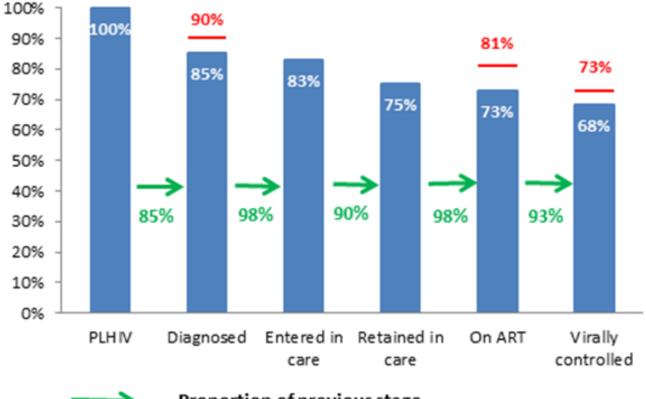
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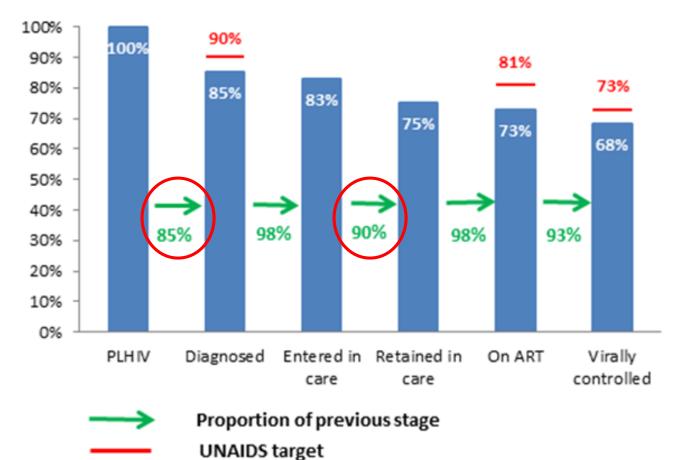
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Continuum of care for people living with HIV in Belgium in relation to the objectives of UNAIDS, 2015



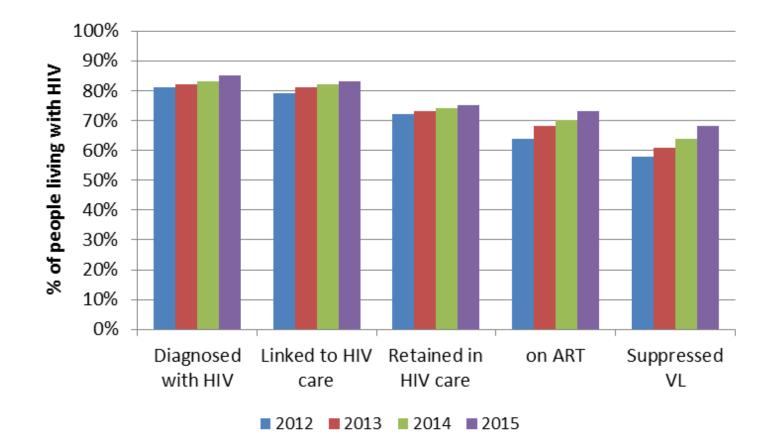
- Proportion of previous stage
 - UNAIDS target

Continuum of care for people living with HIV in Belgium in relation to the objectives of UNAIDS, 2015





Evolution of the stages of the continuum of care, Belgium, 2012-2015





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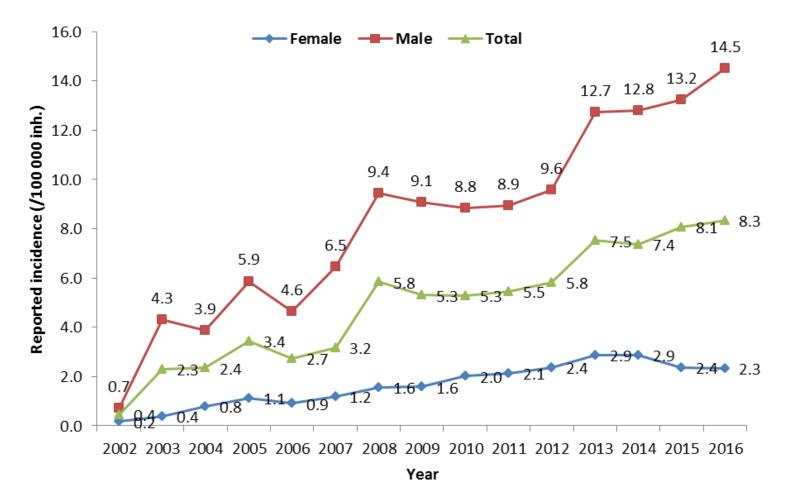
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Trend in reported incidence (/100 000 inh.) of Chlamydia, Gonorrhea and Syphilis, Belgium 2002-2016



Incidence trend (/100 000 inh.) of Syphilis by sex, Belgium, 2002-2016





Conclusions (I)



Real 4-years downward trend in HIV diagnoses

- First time since 20 years
- Statistically significant
- Although testing increased
- Reduction of the hidden epidemic

However: - Still high values:

- New diagnoses: 915 cases (= 8.1/10 000 pop)
- Hidden epidemic: 2875 undiagnosed PLHIV
 - STI trends

Conclusions (II)



Impact of combined prevention activities:

- Early ARV treatment irrespective of CD4 count,
- Early testing, new testing strategies, selftests
- Condom use, information, education
- PrEP and PEP
- STI control
- Fight against stigma

All means used combined → can curve the HIV epidemic