

Do cross-border differences in HIV-testing determine the first pillar of the care continuum?

Data from a EuRegional setting bridging Belgium, Germany, and The Netherlands

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OBJECTIVE

To explore between-country differences in HIV-indicators in the EuRegion Meuse-Rhine (EMR) using two complementary data-driven approaches

BACKGROUND

- **Nederland naar 0!** The Netherlands committed to targeted regional approaches to reach zero new infections
- **Regional approaches require appropriate interventions** targeted to the region's key populations and context to be successful.
- **EuRegio is a unique context** where several countries are in close proximity and HIV-risk is determined by both within-country and between-country differences.

METHODS

- **Estimating Euregio-specific HIV care continuum:** using routinely-collected surveillance data of 2020 from the German Robert Koch Institute, Belgian Sciensano, and the Dutch HIV Monitoring Foundation (Figure 2).
- **HIV-testing differences among MSM:** using data from the cross-sectional EMIS survey from 2017, including 2,669 men who have sex with men (MSM). We employed multilevel multinomial regression modelling to identify sociodemographic factors associated with recent (<1 year), non-recent (≥1 year) or never-testing for HIV, while adding a random effect to explore differences between EMR-countries by estimating the intra-class correlation coefficient (ICC) (Table 1 and 2).

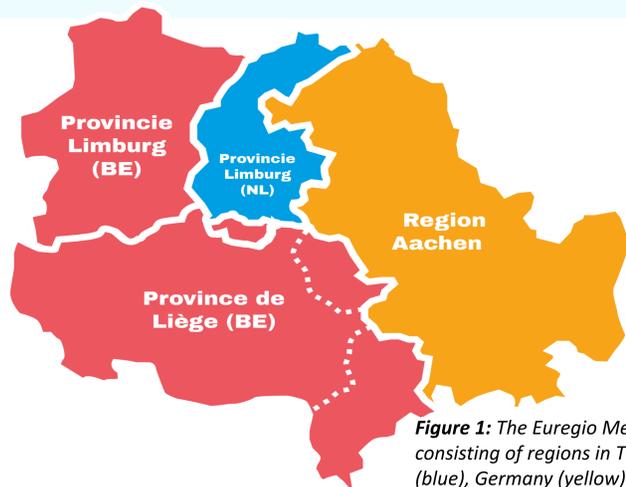


Figure 1: The Euregio Meuse Rhine consisting of regions in The Netherlands (blue), Germany (yellow) and Belgium (red)

CONCLUSION

- Results show **between-country differences** in HIV-testing leading to differences in HIV-risk.
- Non-recent testing and never-testing were also associated with a number of **socio-demographics** suggesting that some key populations (e.g. with transgender identity) and **lack of resources** (e.g. living outside the larger cities and financially struggling) significantly determine differences in HIV-testing.
- To reach zero new infections, targeted approaches to address these regional and sociodemographic differences are urgently needed.

RESULTS

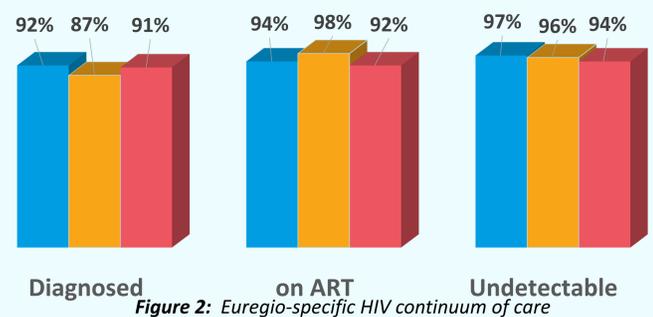


Figure 2: Euregio-specific HIV continuum of care

Table 1. Multinomial regression modelling of socio-demographics.	Recently tested N=1,335 (50%)	Not-recently tested N=693 (26%)	Never tested N=641 (24%)
	Reference	aOR	aOR
Age per 10y increase	1 (ref)	1.30 (1.19-1.41)	0.83 (0.76-0.91)
Transgender identity (vs. cisgender)	1 (ref)	NS	4.63 (1.17-18.35)
Medium-urban residency (vs. urban)	1 (ref)	NS	1.84 (1.40-2.41)
Rural residency (vs. urban)	1 (ref)	NS	1.72 (1.17-2.54)
Outness (vs. not out)	1 (ref)	0.73 (0.54-0.98)	0.49 (0.36-0.66)
<2 casual sex partners (vs. >2)	1 (ref)	0.30 (0.22-0.40)	0.37 (0.27-0.49)
Financially struggling (vs. not struggling)	1 (ref)	1.48 (1.06-2.08)	1.76 (1.26-2.48)

Multilevel results: 8% of HIV-testing variance was explained by between-country differences

- ICC = 7.6% for non-recent
- ICC = 8.3% for never-testing
- Both outcomes were most prevalent in German-EMR

Table 2. Between-country differences in HIV testing	EMR-NL	EMR-BE	EMR-GER
Recently tested	64%	60%	48%
Not-recently tested	20%	16%	24%
Never tested	16%	22%	28%

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