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Continuum of care of the patients diagnosed with HIV in Belgium according to region of origin

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INTRODUCTION

In Belgium the HIV epidemic is largely concentrated among men who have sex with men - in majority of Belgian or European nationality - and Sub-Saharan African men and women. Among the patients newly diagnosed with HIV in 2012, 54.9% were of non Belgian nationality. Their specific socio-demographic characteristics such as nationality, migrant status and social situation may influence their access to HIV testing and care.

OBJECTIVES

To estimate the continuum of HIV care of the patients diagnosed with HIV in Belgium by patient's region of origin.

METHODS

Data on newly recorded HIV diagnoses (2007-2010) and clinical data of the national cohort of PLWH (2007-2011) were used to estimate the continuum of HIV care. Suppressed viral load (VL) was defined as < 500 copies/ml. Associations between region of origin and each step of the continuum were assessed using logistic regression.

RESULTS

3108 HIV-diagnosed individuals were included in the analysis of which 44.9% were Belgians, 34.6% Sub-Saharan Africans, 12.4% Europeans and 8.2% from other nationalities.

The proportion having suppressed VL was 77.6% for Belgians, 70.3% among Sub-Saharan Africans, 68.8% among Europeans and 69.3% among other nationalities (Figure 1). These differences are due to significantly lower linkage to and retention in care among non-Belgians (p< 0.001 for both), whilst among the patients retained in care, the proportions of patients on ART (p=0.52) and those with suppressed VL (p=0.08) do not differ by region of origin, with the exception of Sub-Saharan Africans who have a slightly reduced proportion with suppressed VL (p=0.04).

Figure 1: Continuum of HIV care by region of origin

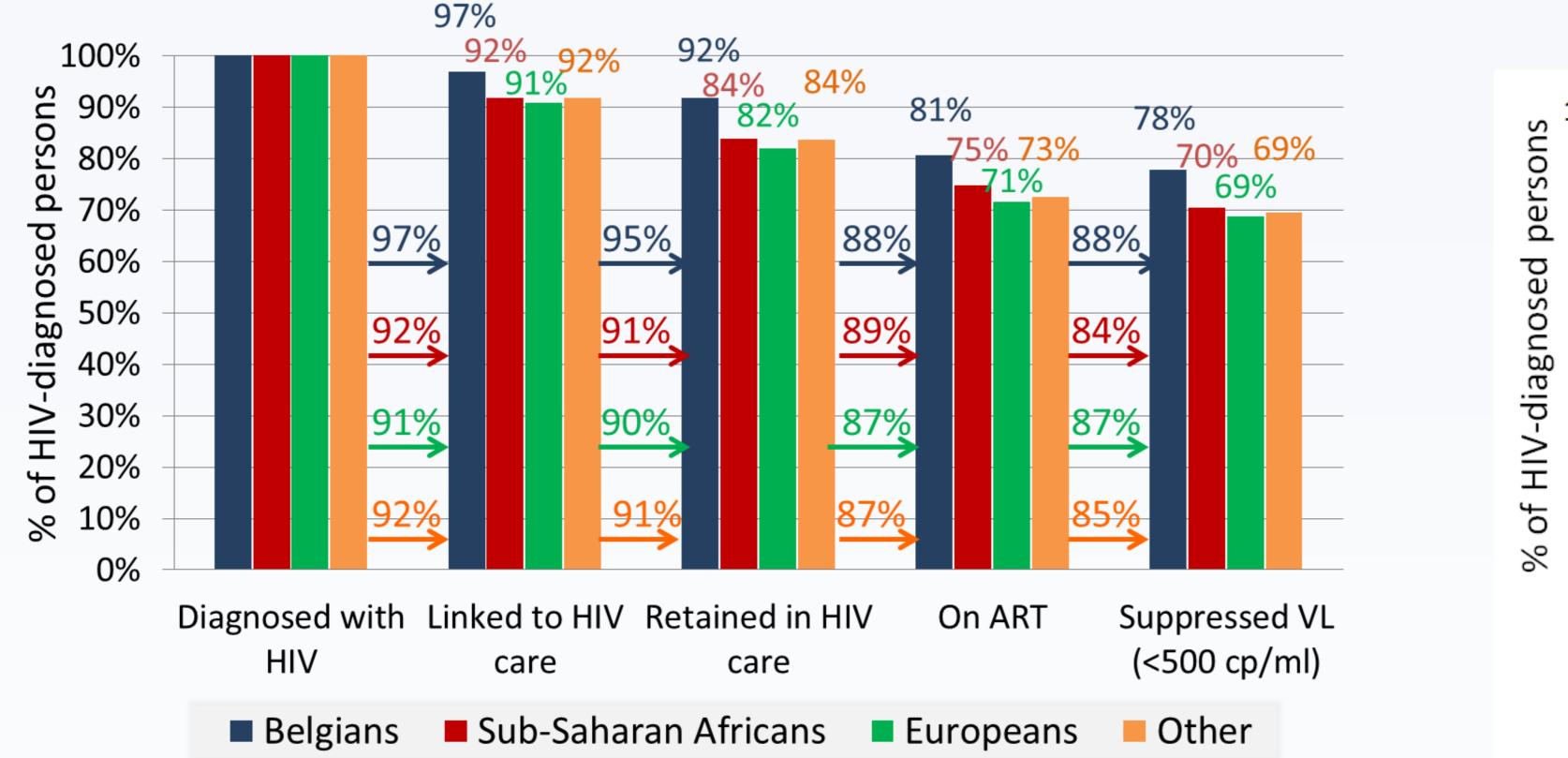
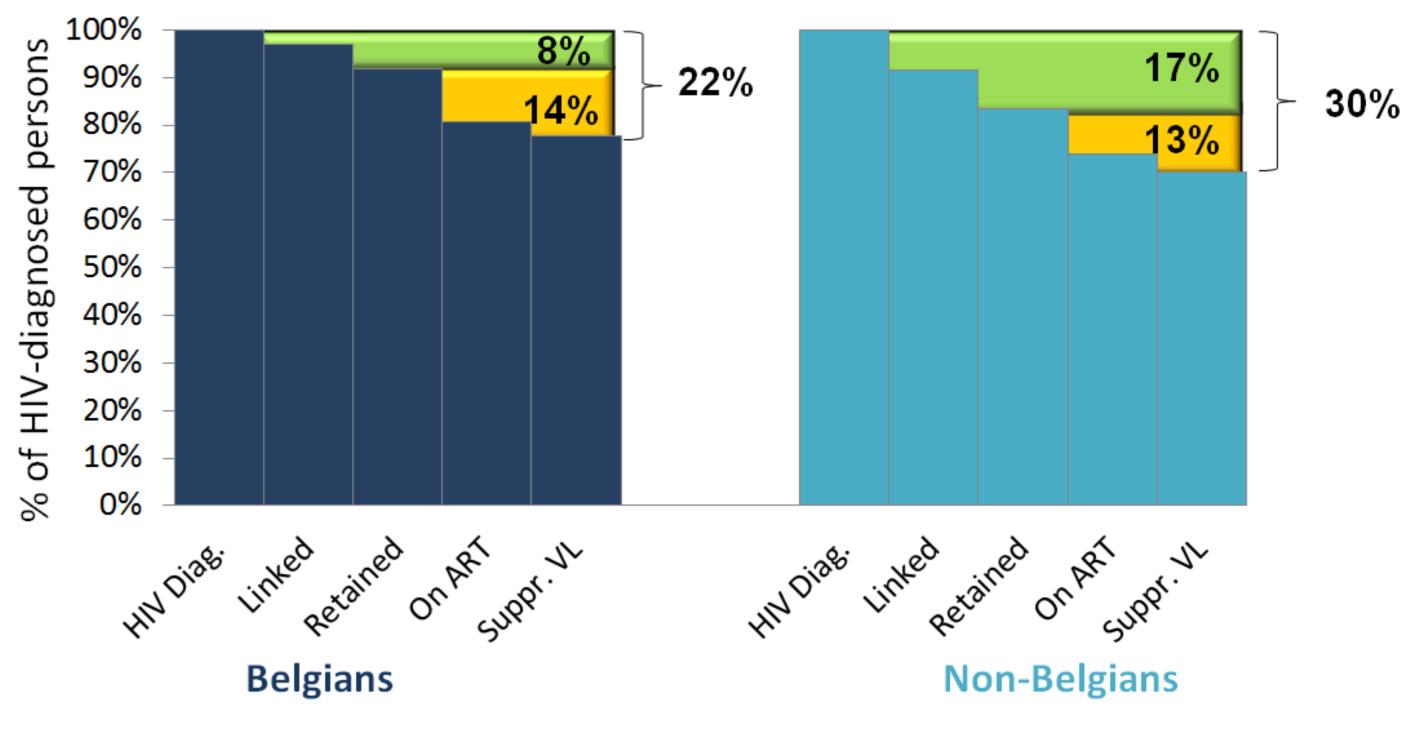


Figure 2: Attrition along the continuum of HIV care among Belgians and non-Belgians



INTERPRETATION

These results (Figure 2) show that 8% of Belgian patients were not linked/retained in care, whilst 14% were retained in care however presenting nonsuppressed VL. This represents 22% of the Belgian patients diagnosed with HIV who present potentially higher risk of onwards transmission. For non-Belgians, 17% were not retained/linked in care and 13% were retained in care with non-suppressed VL. Estimation of the proportion with higher risk for transmission is not straightforward for non-Belgians as there is uncertainty on the presence in the country following HIV diagnosis of those not retained/linked to care.

CONCLUSION

The main differences between nationals and non-nationals in the continuum of HIV care after HIV diagnosis are the linkage and retention in care. Especially for non-Europeans, it is important to further study reasons for defaulting care: whether it is linked with migration outside Belgium or with lack of access to HIV care in Belgium. If we aim to have a global impact on HIV transmission, it is essential to ensure effective access to care of all HIV-infected patients, whatever their nationality, in Belgium or abroad.

This study should be completed by an estimation of the proportion of PLHIV undiagnosed in order to have a complete picture of the HIV care continuum in Belgium.

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