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# IMPLEMENTATION OF HIV TEAMS SUSTAINABLY IMPROVES HIV INDICATOR CONDITION TESTING RATES IN HOSPITALS IN THE NETHERLANDS: THE #AWARE.HIV STUDY

On behalf of the #aware.hiv project group

C.C.E. Jordans<sup>1</sup>, K.J. Vliegenthart-Jongbloed<sup>1</sup>, K.K. Osbak<sup>1,2</sup>, J.L.J. Hanssen<sup>3</sup>, M. Vriesde<sup>1</sup>, J.A.E. van Beek<sup>1</sup>, N. van Holten<sup>3</sup>, W. Dorama<sup>3</sup>, D. van der Sluis<sup>3</sup>, J. van Kampen<sup>1</sup>, A. Verbon<sup>4</sup>, A.H.E. Roukens<sup>3</sup>, C. Rokx<sup>1</sup>

<sup>1</sup>Erasmus MC, Rotterdam, the Netherlands, <sup>2</sup> Maasstad hospital, Rotterdam, the Netherlands, <sup>3</sup> Leiden University Medical Center, Leiden, the Netherlands, <sup>4</sup> University Medical Center Utrecht, Utrecht, the Netherlands

# **BACKGROUND**

- Missed opportunities contribute to late HIV diagnoses impacting many people worldwide
- In the Netherlands, **about half** (47%) of the people newly diagnosed with HIV are **diagnosed late**
- HIV indicator condition-guided testing helps to identify undiagnosed HIV infections
- Aim: to evaluate the effect of HIV teams on hospital-based HIV indicator condition-guided testing

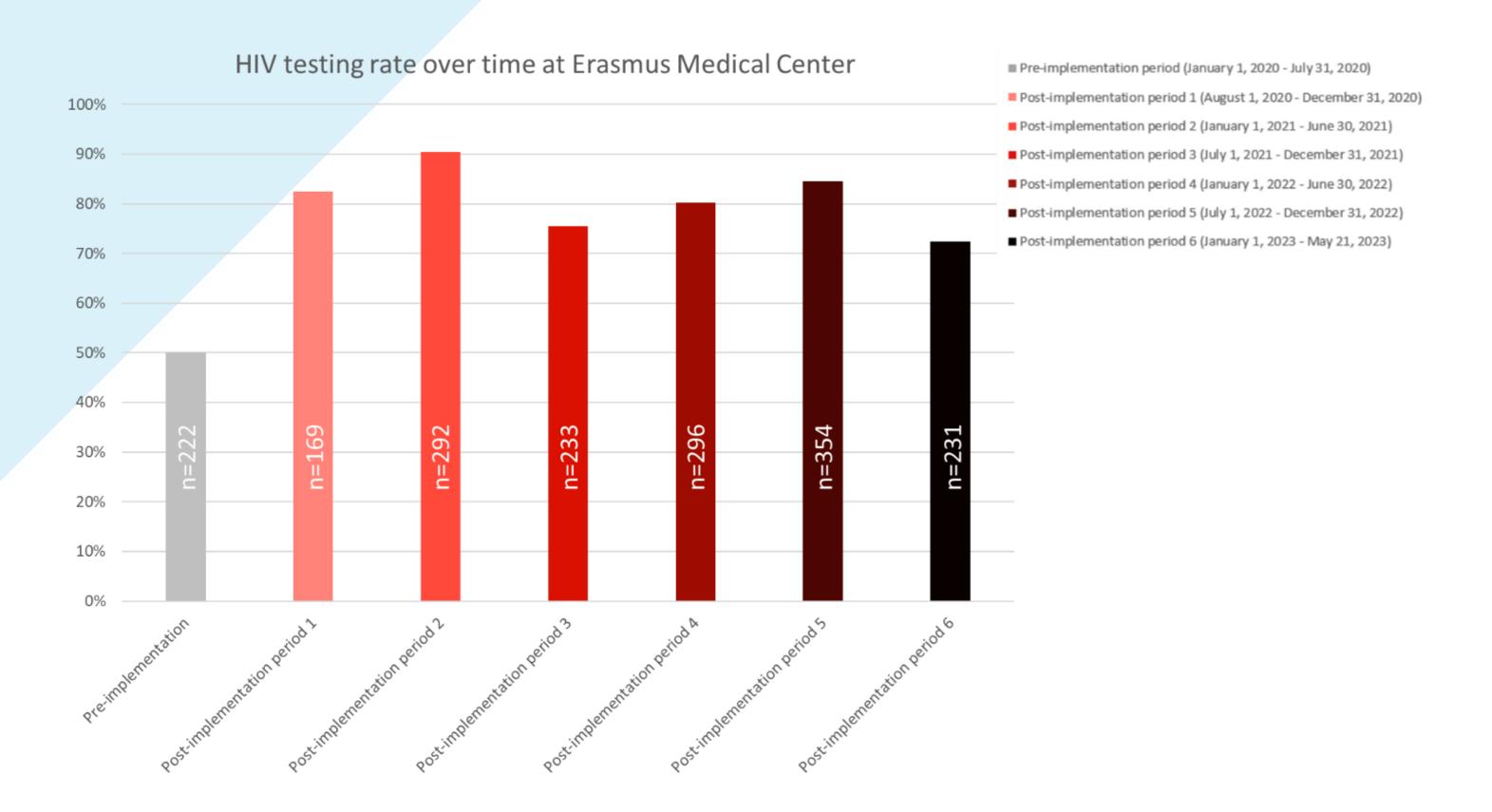
# **METHODS**

- Ongoing multicenter prospective implementation study
- Data collected on all newly registered diagnoses of patients ≥18 years who entered care between January 2020 and July 2023
- Patients already diagnosed with HIV were excluded for analysis
- Potential HIV indicator conditions were flagged using automated ICD-10 and standardized health insurance (DBC) codes
- HIV team intervention consisted of department-specific educational sessions and proactive HIV testing recommendations
- Outcomes: HIV testing rate in patients with HIV indicator conditions, HIV testing rates over time and per specialty, HIV positivity rate, reasons not to test for HIV

### **RESULTS**

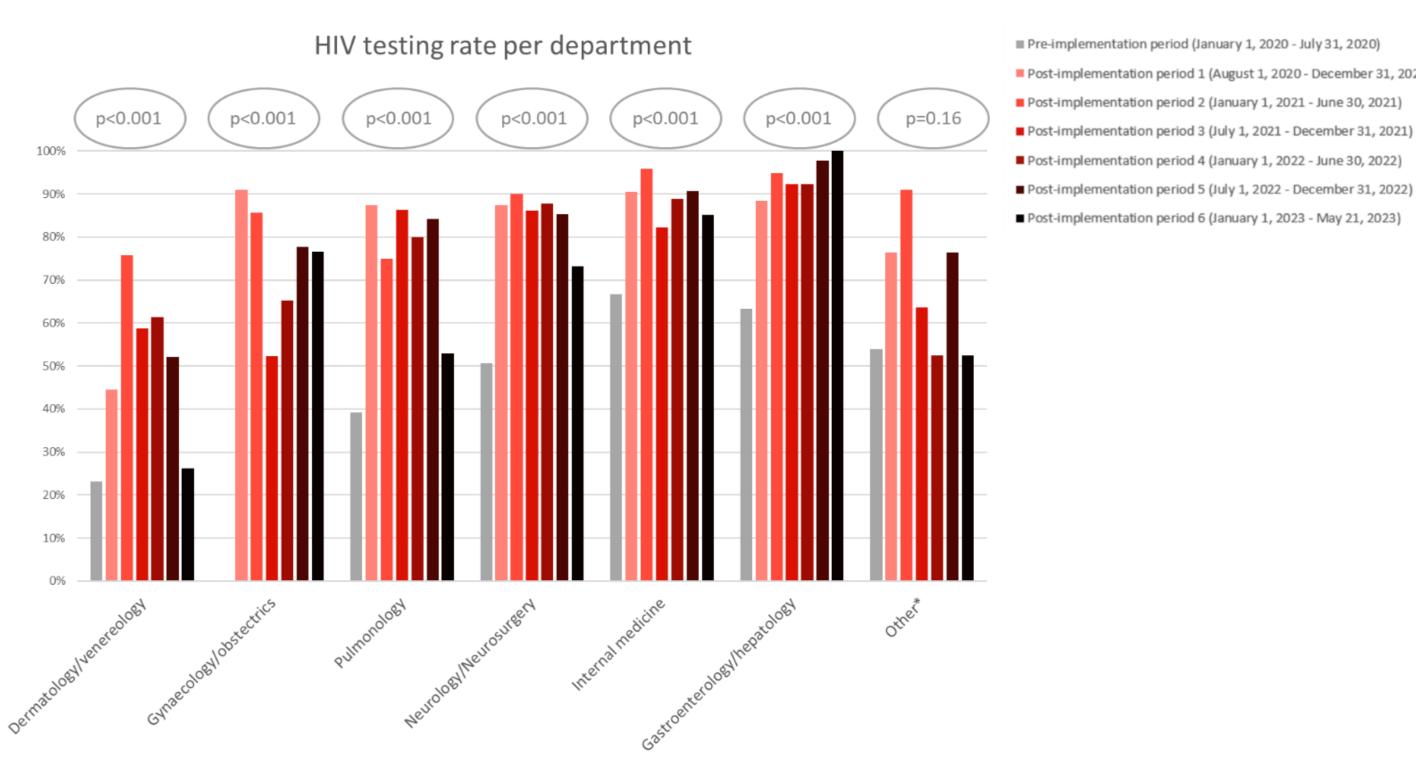
- 313,666 diagnoses were newly registered, including 2,506 HIV indicator conditions (443 pre-implementation and 1,952 post-implementation)
- Overall HIV testing rate increased from 50.1% (222/443) preimplementation to 80.7% (1,575/1,952) post-implementation of HIV teams (p<0.001)
- Overall HIV testing rate showed a sustained increase over time (range 72.4% - 90.4%) (Figure 1)
- HIV team intervened 411 times resulting in 69 (16.3%) extra HIV tests
- HIV testing rates increased in all specialties, with the biggest increase in gynaecology (Figure 2)
- HIV positivity rate was 0.4% (1/222) pre-implementation versus
   0.6% (9/1,575) post-implementation of HIV teams

Figure 1: HIV testing rate over time at Erasmus MC



- Women (aOR 0.59, CI 0.45 0.79, p<0.01) and patient with indicator conditions without HIV testing recommendations in national guidelines (aOR 0.36, CI 0.27 – 0.48, p<0.01) were less often tested for HIV
- Reasons not to test for HIV were often (50.6%) **not provided**, if provided most often the patient was **lost to follow-up** (18.4%)

Figure 2: HIV testing rate over time per specialty



p-value indicates the comparison between the mean proportion of HIV indicator conditions per specialty tested for HIV pre-implementation versus the mean proportion of HIV indicator conditions per specialty tested for HIV post-implementation calculated using Chi-Square tests \* Other included the following departments: cardiothoracic surgery, ophthalmology, orthopedic surgery, otorhinolaryngology, psychiatry, rheumatology, surgery, and urology

### **CONCLUSIONS**

- Implementing HIV teams in hospitals significantly and sustainably increased HIV indicator condition-guided testing
- The results of this study support the broader adoption of HIV teams in diverse hospital settings
- Which is going to be realized as **#aware.hiv Europe**, expanding to twenty hospitals in ten European countries to further roll-out this project