Targeted screening and immediate start of treatment for acute HIV infection among men who have sex with men at a Sexual Health Clinic in Amsterdam, the Netherlands

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On behalf of the HIV Transmission Elimination AMsterdam (H-TEAM) initiative
Conflicts of interest

• None
Recent infections in Amsterdam

% with negative test <6 months

Calendar year

MSM
Other men
Women
The Benefits of Early Antiretroviral Therapy for HIV Infection: How Early is Early Enough?

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University of California San Francisco, CA, USA

- Rapid diagnostic and referral trajectory for acute HIV infection among MSM at the Amsterdam STI clinic
- Increase # acute HIV diagnoses, start ART within 24 hours

Objective

Evaluation of rapid acute HIV trajectory by comparing MSM in trajectory vs. routine diagnostics and care, regarding:

- Acute HIV diagnosis
- Time from diagnosis to:
  - intake at an HIV clinic
  - start ART
  - viral suppression
Rapid acute HIV trajectory, since 2015
Rapid acute HIV trajectory, since 2015

1. www.hebikhiv.nl/en
2. Dijkstra BMC Infectious Diseases 2017, Lin JAIDS 2018
The Amsterdam Score for acute HIV infection

Development Amsterdam Cohort Studies
AUC 0.82

Validation Multicenter AIDS Cohort Studies
AUC 0.78

Validation San Diego Early Test Programme
AUC 0.88

Dijkstra BMC Infectious Diseases 2017, Lin JAIDS 2018
Procedures STI clinic

- **Ab**
- **Ag/Ab**
- **Results**
- **Confirmation & referral**
- **Start ART**

- **Routine screening**
- **Rapid acute HIV trajectory**

Days:
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Rapid acute HIV trajectory, 2015-2019

162

Acute HIV: 16

39

Early HIV: 13

238

Chronic HIV: 4

68

Negative: 418

507

56

451
# Results

## 2015 - 2017

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Routine</th>
<th>Trajectory</th>
</tr>
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<tbody>
<tr>
<td>Visits</td>
<td>16,021</td>
<td>249</td>
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</table>

*Median*
Results – acute HIV diagnosis 2015-2017

**HIV positivity**
- Routine: 0.7%
- Trajectory: 7.6%

**Acute HIV positivity**
- Routine: 0.03%
- Trajectory: 4.0%
Results – days to viral suppression
Conclusions

• Targeted screening resulted in a higher proportion of acute HIV infection diagnosed than through routine screening among MSM at the Amsterdam STI Clinic

• Implementation of the rapid acute HIV trajectory, along with changes in treatment guidelines, resulted in a shorter duration between HIV diagnosis and viral suppression
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www.hteam.nl

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