# Global Health in Amsterdam

8 November 2014 Fransje van der Waals MD PhE Health[*e*]Foundation



# Joep Lange's legacy

The H-team

HIV transmission elimination in Amsterdam



# Netherlands

In the Netherlands are 22.231 people living with hiv registered in 2013 1.214 new hiv positives registered

80% is male

Risk groups: MSM

people from hiv-endemic area's (Africa, Eastern

Europe)

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## Vetherlands

In the Netherlands is 35-45 % unaware of their hiv+ status

In Amsterdam 17 %
Outside the main cities 47%

Untited States 21%

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# Entry into care in the Netherlands

43% late into care 2012

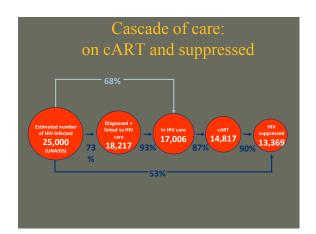
26% entry into care with advanced HIV disease

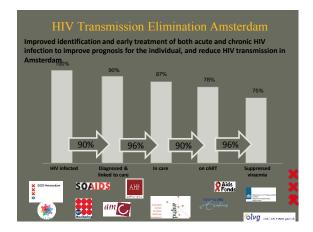
# Delay in treatment initiation

Median CD4+ cell count at entry into care 390/mm³ in 2012.

# Knowledge of HIV status

- Approximately 7000 people with HIV infection unaware
- These are estimated to be responsible for the majority of new infections





# Amsterdam Treatment as Prevention (TasP) Functional Cure Pep Prep Proactive GPs HEALTH FOUNDATION

# What does TasP mean?

- Tasp stands for more than the use of antiretroviral treatment (cART) to provide the more than the use of antiretroviral treatment.
- First and foremost it stands for many and the stands and had many and the stands in HIV-infected persons.

# Why start treatment early?

- · Biological plausibility
- Overwhelming evidence that it increases survival
- No immune reconstitution syndrome
- Reduces TB incidence

### And

It may lead to a "functional cure" in a subset of patients who are treated during primary or acute infection.

Saez-Cirion A, et al. PLoS Pathog 2013; Persaud D, et al. CROI 2013; Ananworanich J, et al. CROI 2013

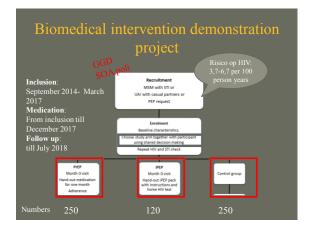
 One may extrapolate from this that future strategies at curing HIV will be most successful in this particular population.

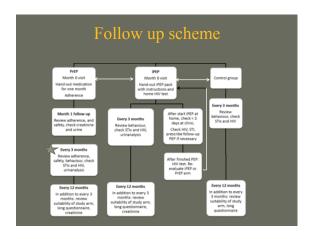
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# Biomedical intervention: New prevention strategies • Pre-expositie profylaxis: Daily combination of two antiretrovirals protects against HIV iPrEX studie (MSM): 44% protection Partners Prep: 75% protection • Immediate Post-expositie profylaxis (iPEP):

Home package PEP with self HIV test. After risk incident immediate start with PEP. Withing 5 days GGD consultation for HIV test and prescription Innovative way of PEP distibution, with less barriers to start (disclosure etc)

GGD Amsterdam





· Primary outcome

Feasibility of offering an integrated package including biomedical prevention interventions

Secondary outcomes

Security and risk compensation:
Risk behavior, side effects, STI incidence, viral resistance

Adherence, case-holding, HIV diagnoses

- Biomedical intervention demonstration project is a project on the prevention side of the H-team.
- Pre-exposure prophylaxis
  Immediate post-exposure prophylaxis
- In an innovative concept in which these two interventions are combined to enable to apply a tailor-made prevention

# Proactive GPs

Test strategies and provider initiated testing and counseling in Amsterdam

HIV testing strategies
Intervention: active HIV testing by GPs
Opting out HIV testing at STI clinics
Testing if indicator complaints (First aid and other clinics)
Community based outreach testing
Patient initiated testing

H-team collaboration Provides an opportunity in Amsterdam To align these strategies among others during annual HIV test week



GP's in Amsterdam do many STI consulations (compared to rest of the country 50-70%),

GP's see yearly 75% of the adult Amsterdam population

But still miss many opportune moments tot test for hiv (flew like symptoms, mononucleosis like complaints, herpes zoster at young age, sti's) treatment delay,

GP's in Amsterdam should be more proactive in testing

In Amsterdam concentrated epidemic general population < 1% risk groups 5%

Positive tested

in GP clincis

33 % 33 %

hospitals

30% of the GPs do not follow NHG SOA standard



# · Risk or risk behavior?

It remains difficult to shave all the MSM over a ridge, about 50 percent is either monogamous or adheres consistently to the

# · Risk groups

# Importance of risk based / indicator guided testing:

GP clinics in South East Amsterdam:

58% of hiv positive tested visited the clinic in the last five years with indicator complaints/ diagnoses

# Importance risk based / indicator guided testing:

Consider HIV

Unexplained fever
Night sweats
Persistent fatigue
Weight Loss
Chronic skin problems
Oral or vaginal candida infections
Progressive dyspnea
Persistent diarrhea
Lymphadenopathy
Polyneuropathy
Thrombocytopenia / leukopenia
Proteinuria / nephrotic syndrome

# Think of HIV when chronic skin problems

Mollusca contagiosa Progressive condylomata acuminata Shingles

55,000 patients in six GP clinics

Proactive at risk groups

all first visits to GP lab test including HIV

Decrease the percentage of people unaware of his / her positive HIV status

Increase in number of early and acute detected HIV

Upscale of "community based testing" in high-risk groups,

Acquiring knowledge about acute HIV infection.

acute HIV infection

Test when acute HIV infection is suspected Be treated for an acute HIV infection

# Symprom recognistion Link with

# Outcome acute infection

- On basis of viro-immunological parameters and developments in
   other studies / other therapeutic interventions.

AMC Dep of Infectious diseases

# Curacao

# TasP Curacao proposal

Once annually at all sexually active patients in the practice (PICT). Possibly more often in risk groups

# **HIV** positives:

- Information of early treatment

  Own health (prevention of hiv related morbidity and mortality)
- Partner involvement/ testing

   Test CD4+ cell count , plasma viral load (pVL) all other tests 'routine'
  HIV patients (CBC, renal and liver functions, lues, HBV, HCV)
- When CD4+ cell count < 200/μL (or clinical signs) referral to internal medicine, Ol profylaxis, start with cART

   When CD4+ cell count ≥ 200/μL: start cART ( if patient agrees) Atripla®, discuss alternatief regime with internal/infectious disease specialist

- Adherence-counseling and Adherence support
   Controls of HIV positives that postpone treatment

### Monitoring:

- 2 weeks pVL if no drop in VL adherence check, possible resistence and safety parameters: CBC, creatinine and liverezymes.
   3 months pVL, CD4+ and safety parameters.
   6, 9, 12 months: pVL, safety parameters.
   When pVL < 50 copies/mL and good adherence, frequence of pVL every 6 months. Also for safety-parameters, check creatinine tenofovir, as well for HIV-geassociated nefropathy

1357 people tested resulted in 2 HIV positives

HIV transmission elimination in Amsterdam and Curacao H-team and H-tec?