2019 90-90-90 Targets
France progress and experience

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Data sources to estimate the cascade

- **Cohorts of HIV patients in population**
- **Health Insurance data**
- **Cohorts of HIV patients in care**

**Individuals diagnosed with HIV, linked to care and followed-up**

**Individuals diagnosed with HIV but not linked to care**

**Undiagnosed HIV infections**

**Data on newly diagnosed HIV cases**
Data sources to estimate the cascade + modeling to provide estimates

- Cohorts of HIV patients in population
- Individuals diagnosed with HIV, linked to care and followed-up
- Individuals diagnosed with HIV but not linked to care
- Undiagnosed HIV infections
- Health Insurance data
- Cohorts of HIV patients in care

Data on newly diagnosed HIV cases
Cascade of care in France in 2016

173 000 individuals living with HIV

Source: ANRS & Santé Publique France
« Good » cascade of care in France in 2016

UNAIDS target → 73% VL<200 cp/ml
Good cascade…
… but stable incidence,

Estimated number of new HIV infections 2004-2016

Source: ANRS & Santé Publique France
Good cascade…
… but stable incidence, & long time interval infection - diagnosis

Estimated number of new HIV infections 2004-2016

Median times in years between infection and diagnosis (2014-2016)

- Infection --> Diagnosis
- Diagnosis --> Care entry
- Care entry --> ART initiation
- ART initiation --> Suppressed VL

Median times:
- Infection to Diagnosis: 3.3 years
- Diagnosis to Care entry: >0.1 years
- Care entry to ART initiation: 0.2 years
- ART initiation to Suppressed VL: 0.3 years

Estimated number of new HIV infections 2004-2016:
- 5800 infections in 2016

Incidence trends:
- Stable incidence
- Long time interval infection-diagnosis
Long time interval between infection and diagnosis in France in 2014-2016

Source: ANRS & Santé Publique France

Median time between infection and diagnosis: 3.3 years

>4 years for heterosexual men (whether born in France or abroad)

<3 years for MSM and heterosexual women (whether born in France or abroad)
Geographic heterogeneity: Estimated number of undiagnosed HIV infections by administrative region

- Centre
  - MSM, SSA-born heterosexual women

- Paris region
  - Born-abroad MSM, MSM born in France, SSA-born heterosexual (women & men)

- French Guyana
  - Born-abroad heterosexual men
  - Born-abroad heterosexual women

- PACA
  - Born-abroad MSM, MSM born in France

Marty, Cazein, Panjo, Pillonel, Costagiola, Supervie, HERMETIC study group (2018)
Long time interval between infection and diagnosis in France in 2014-2016

Our challenge:

- Reduce entry into the cascade
- Improve the 1\textsuperscript{st} 90 overall
- Fix disparities between vulnerable populations and between regions
The 4th 90: good quality of life

**The Treatment Target**

- **90%** diagnosed
- **90%** on treatment
- **90%** virally suppressed
- **90%** good quality of life

*Lazarus et al., BMC Med, 2016*
The ANRS CO3 Aquitaine Cohort’s « Bring your own device » solution

1. PLWH create their own accounts
2. Complete an initial battery of PRO

Collection of "patient-reported outcomes"

Prompt 1x per year

Enrolled in the ANRS CO3 Aquitaine Cohort

12 years of follow-up on average

Enrollment in the QuAliV Study

Collection of routine clinical and laboratory data

Barger et al., JMIR Research Protocol, 2018
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