











HIV/AIDS care and follow-up on a national scale in low resource settings: experience of the Niger Initiative on Antiretroviral Access (INAARV), Niger

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Background

Scaling up of HAART in Niger began in 2004 at a national level through the Niger Initiative on Antiretroviral Access (INAARV), with technical support from the NGO SOLTHIS.

INAARV provides free ARV access, biological and immunological monitoring, and centralized data collection.



All HIV/AIDS patients:

- are followed-up in public health systems: 5 ARV centers in Niamey, 8 in the regions
- receive standardized care following national guidelines.

Methods

The Nigerien national database is made of five local databases (Diffa, Maradi, Niamey, Tahoua, Zinder).

Patients' clinical files data, as recorded by physicians at each follow-up visit, are recorded in the software Fuchia® (Epicentre).

This evaluation of the national database includes all adult patients (15 years) who initiated HAART between October 2004 and March 2008.

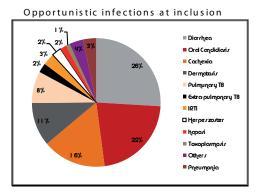
While all inclusion and initiation statistics are computed for the complete cohort, follow-up statistics only take into account patients with ≥ 1 follow-up visit.

For Kaplan-Meyer computation, we also drop transferred patients (n=64). Computation is made with statistical software R.

Results

Whole national cohort: 3668 patients; adults patients who initiated ART: 2995

Patients characteristics at inclusion Female 1577 (53%) Median [IQR] 35,2 [29,2-41,2] Age (yrs) CD4 (cell/mm³) Median [IQR] (n=2429) 128 [56-214] 18,59 [16,3-21,4] BMI (Kg/m²) Median [IQR] (n=1557)(32%severe Median CD4 [IQR] OMS staging 189 [105 - 299] 902 (38) 104 [46 - 180] 1200 (50) [28 - 157] 277 (12)



ARV at inclusion

2NRTI/1NNRTI 2822 (94%) 2NRTI/1IP 74 (2.4%) 2NRTI/1IP/r 4 (0.1%) 3NRTI 5 (0.2%) Others 90 (3%)

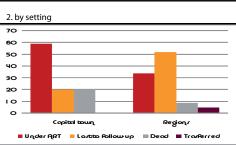
2NRTI/1NNRTI => mainly d4TorAZT/3TC/NVP 2NRTI/1IPr => mainly d4T orAZT/3TC/IDVr

Median follow-up time: 12,9 months [4,3 - 22,5]

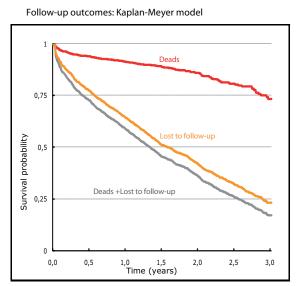
Adults patients on ART with ≥ 1 follow-up visit: **2606**

Patients' outcome: 1. by year

70
60
50
40
30
20
10
0
2005
2006
2007
Under ART Lost to follow-up Dead Trasferred



Lost to followup are overestimated due to increased issues in data collection and follow-up in the regions



Virological outcome

Opportunistic infections during follow-up
770 patients with ≥ 1 OI after HAAR1

n Median time after ART [IQR]

Pulmonary TB 98 2,2 [1.0 - 3.9]

Extra-pulmonary TB 31 1,97 [1.1 - 3.8]

Immunological recovery by year of follow-up

400
350
250
200
150
T0 M6 M12 M18 M24 M30 M36
nCD4 2429 707 530 387 238 143 78
nP15 2995 1699 1139 768 498 267 139

Conclusion(s)

Implementation of HAART with nationally standardized criteria in a public health approach is achievable in low income countries. Many efforts needs to be done in the areas of clinical and immunological follow-up.

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, réalsation à impression: Mag Graphi notes KORYZMA - Carte: Romain Cazaumayou