The OPP-ERA Project: Implementation of HIV-1 Viral load testing in Four West and Central African Countries, using innovative Open polyvalent Platforms (OPP)

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Open Polyvalent Platforms (OPP) constitute an innovative technology for VLT and might help to increase the market with new suppliers.

**DNA/RNA Extractor**  **Thermocycler**  **HIV-1 amplification Assay**

The Platforms are Open to several machine suppliers Polyvalent: they could be also used for EID (Early Infant Diagnosis), HBV, HCV, Tuberculosis, etc.

**EXAMPLE of the follow up of weekly reports:**

**good intra and inter-laboratories reproducibility**

**PHASE 1 (March 2013-July 2016)**

**Results**
- 7 laboratories were equipped.
- Training over 220 clinicians and lab technicians
- Labs quickly became functional
- They now produce quality results, even in those who have never done Molecular Biology
- Success in implementing viral load Despite major political and epidemic difficulties (political instability in Burundi; Ebola epidemic in Guinea)
- Demonstration that OPP facilities are suitable for LIMC: few maintenance issues
- Increase in commodities quantity in the OPP-ERA lab
- 70,000 viral loads tests performed since August 2014.
- Good results of the Quality program.

**Conclusions**
- Labs are working well.
- OPP are well adapted to West and Central African countries
- Viral success >73%, with 87.4% in Burundi
- Report of a low VL prescription of by Physicians
- Preliminary analysis of barriers: Physicians Need time for adaptation to many changes (new WHO recommendations, various access and stroke of second line drugs)


- To Demonstrate optimal use of platforms through scale-up and decentralization of OPPs in the four Project countries
- New Targets of 14 labs and >300 000 VL
- To demonstrate OPP value on Polyvalence for Tuberculosis and HBV
- To implement routine use of EID and DBS
- To strengthen the Quality Assurance Plan
- To increase demand creation for VL testing from clinicians and patients
- To develop new adherence programs integrating
- To implement task shifting for VL prescription (nurses and pharmacists)
- To strengthen the role of the Civil Society
- To implement transition to National Authorities in the four countries.
- To provide evidence related to health economy
  - Conduct cost-effectiveness studies
  - Develop a costing tool and train national key staff
  - Conduct a global market analysis
  - Facilitate introduction of new suppliers with lower unit costs.

**OBJECTIVES of the OPP-ERA Project**
- IMPACT ON PUBLIC HEALTH: Reinforcing access to HIV viral load and early diagnosis in targeted countries, complementary to integrated platforms and POC
- IMPACT ON THE MARKET: Stimulating competition on HIV viral load testing market: new manufacturers and technologies through the promotion of OPP

Funded by

4 Countries
Burundi
Cameroun
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