



SIDAINFO/UID SYSTEM FOR HIV+ CARE MANAGEMENT IN BURUNDI

Serge Bisore

Country Director, Data.FI Burundi

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Outlines

- Background
- SIDAIInfo system to improve quality of person-centered care;
- SIDAIInfo Core Functions for linkage, retention, and re-engagement in ART
- SIDAIInfo - Tracking of IIT, VLC and VLS
- Detectable Viral Load Tracking System
- SIDAIInfo additional modules: Biometric system, DDD app (HAFI and Lab Apps (IBIPIMO))
- Lessons learned
- Constraints

Background

❑ What is SIDAInfo?

- National EMR that collect, manage, analyze, and share HIV client data;
- Enhanced system against vulnerability to breaches in analogue and digital storage systems;

❑ System ownership

- SIDAInfo system is owned by the MOH.
- The NACP is leading the coordination of its development and deployment, and the implementing partners (IPs) of PEPFAR-funded projects are providing technical and financial support.

❑ Governance of SIDAInfo

- A SIDAInfo TWG appointed by the MOH to guide the SIDAInfo development process

❑ Development team

- An IT team composed of information technology staff from PEPFAR-funded IPs (RAFG, Data.FI, and RISE) was appointed to conduct the development, deployment, and maintenance of SIDAInfo.

SIDAInfo: Improving quality of person-centered care

VIRAL LOAD SUPPRESSION
Patient follow-up for timely regimen changes in case of treatment failure.



TESTING AND LINKAGE TO ART
Tracking index-testing opportunities and outcomes for sexual partners and children of HIV-positive mothers;
Tracking the status of HIV-positive patients and their possible linkage to ART.

RETENTION ON TREATMENT
Improve retention by identifying opportunities to contact patients who interrupted treatment.

Recent infection surveillance (under development)



SIDAInfo Core Functions for linkage, retention, and re-engagement in ART

- Alerts on IIT, VL and EID eligibility at the welcome screen
- Biometric Unique identification system
- Indexing of children and partners
- Drugs dispensation (+MMD possibilities)
- IIT tracking (alerts, reports and tracking actions recording)
- Transfer in/out management
- Medical consultations & biological test results recording
- SMS reminders for ART appointments
- MER Indicator Generation & Reporting, PNLs Reporting Capabilities
- Integration of decentralized drug distribution (DDD): under development

SIDAInfo - Tracking of IIT, VL Coverage and VL Suppression

SIDAInfo Dashboard for clients care management:

- Interruption in Treatment (IIT) tracking;
- Viral load eligibility;
- Viral load suppression

SIDAINFO v.1.2.41 Admission / sortie ▾ UID et Empreintes ▾ Dispensations

REARDS AUX RENDEZ-VOUS ARV	
0-15 jours	1
16-27 jours	0
28 jrs et +	1190
28-44 jours	0
45-59 jours	1
60-74	2
75-99	234
90 jours et +	953

Enfants attendus PCR/SEROLOGIE	
PCR 1 (avant 2 mois)	0
PCR 2 (9 mois)	22
6 sem après seuvrage	0
Sérologie 18 mois	71

PCR Résultats attendus	
PCR avant 2 mois	1
PCR à 9mois	1
PCR 6 sem seuvrage	0
Sérologie 18 mois	0

PATIENTS NON ARV	
Total non ARV	1
- de 7 jrs du dépist	0
+ de 7 jrs du dépist	1

Enrôlements biométriques	
Situation	Patients
Attendu pour enrôlement	1187
Enrôlé dans le système	2
Enrôlement supprimé	3
Sans UID	1187
Avec UID	5

Dernières dates de saisie	
Admissions	
Délivrance ARV	
Consultations	
PTME	

Patients en indication CV	
Aucune CV 6 mois et + S/ARS	55
+ 12 mois sans autre CV	288
Dernière CV détectable	10
Attente de résultats	809

Dépistage			
	Dépistage	Positifs	% positifs
Tous	497	8	1.6
Indexés	4	0	0

Mise sous traitement		
Tot à traiter	Traités	% traités
8	20	250

CV accès / suppression			
	Dénominateur	Nominat	%
Accès	1 187	42	3.5
Suppress	42	31	73.8

Lost to follow-up tracking in the system

Eligible clients for Viral Load test

Viral load access and suppression rates are calculated for the site

Detectable Viral Load Tracking System

Patients with detectable VL are easily tracked in the SIDAInfo system.

Code patient	Âge patient	Sexe	Prélèv 1	Nombre copies 1	Prélèv 2	Nombre copies 2	Prélèv 3	Nombre copies 3	Prélèv 4	Nombre copies 4	Date sortie	Cause sortie
000104	46	F	23/03/2020	2 331	03/12/2020	1 522						
000123	40	F	28/08/2020	3 471	27/11/2020	2 614						
000137	36	F	20/04/2020	33 021	12/08/2020							
000220	19	F	09/07/2020	40 025	07/09/2020	1 012	03/12/2020					
000223	46	F	22/09/2020	2 541								
000249	50	F	22/01/2020	2 031	02/09/2020	29 230						
000273	18	M	17/09/2020	11 036	05/01/2021							
000282	44	F	23/04/2020	1 284	03/12/2020							
000317	52	F	13/07/2020	183 266	07/12/2020							
000376	23	M	23/06/2020	5 346								
000378	52	F	23/04/2020	1 224	03/12/2020							
000554	20	M	03/04/2020	5 223	04/09/2020	1 833	03/12/2020					
000603	40	F	16/09/2020	1 323	05/01/2021							
000768	49	M	03/12/2020	128 544								
000775	60	M	27/03/2020	15 315								
000835	61	M	02/04/2020	251 806								
000855	21	M	26/03/2020	8 464	09/07/2020							
000877	16	M	17/09/2020	2 980								
000912	14	F	13/05/2020	45 809	21/01/2021							
000927	18	M	15/05/2020	1 050 723	10/12/2020							
000940	14	F	10/01/2020	37 538	15/04/2020	14 510	03/12/2020					
001053	12	F	06/08/2020	1 115	03/12/2020							
001193	22	F	14/05/2020	38 120	18/09/2020							
001337	11	M	16/09/2020	141 101	28/11/2020							
001404	56	M	29/07/2020	20 597	28/11/2020							
001509	50	F	17/09/2020	327 564	06/01/2021							
001576	46	M	30/03/2020	15 962							31/08/2020	3
001585	31	F	18/03/2020	1 458	24/09/2020							
001672	30	F	15/09/2020	26 891								
001695	62	M	14/01/2020	600 380	03/04/2020	1 219	03/12/2020	493 232				

No other viral load test done for controle for these clients !

AIDSInfo biometric system to improve client care access

Web-based biometry system using fingerprints

- Centralized System for HIV clients unique identification:
 - UID generation;
 - Biometry enrollment;
 - Comparison 1-1/1-n
- Client Unified Information
 - Data exchange for client transfer
 - Ease of care for drop-in clients
 - Drop-out cases tracking (LFU, abandon, death,...)
- Facility level sub-system:
 - Fingerprints devices
 - Interfaces with SIDAInfo

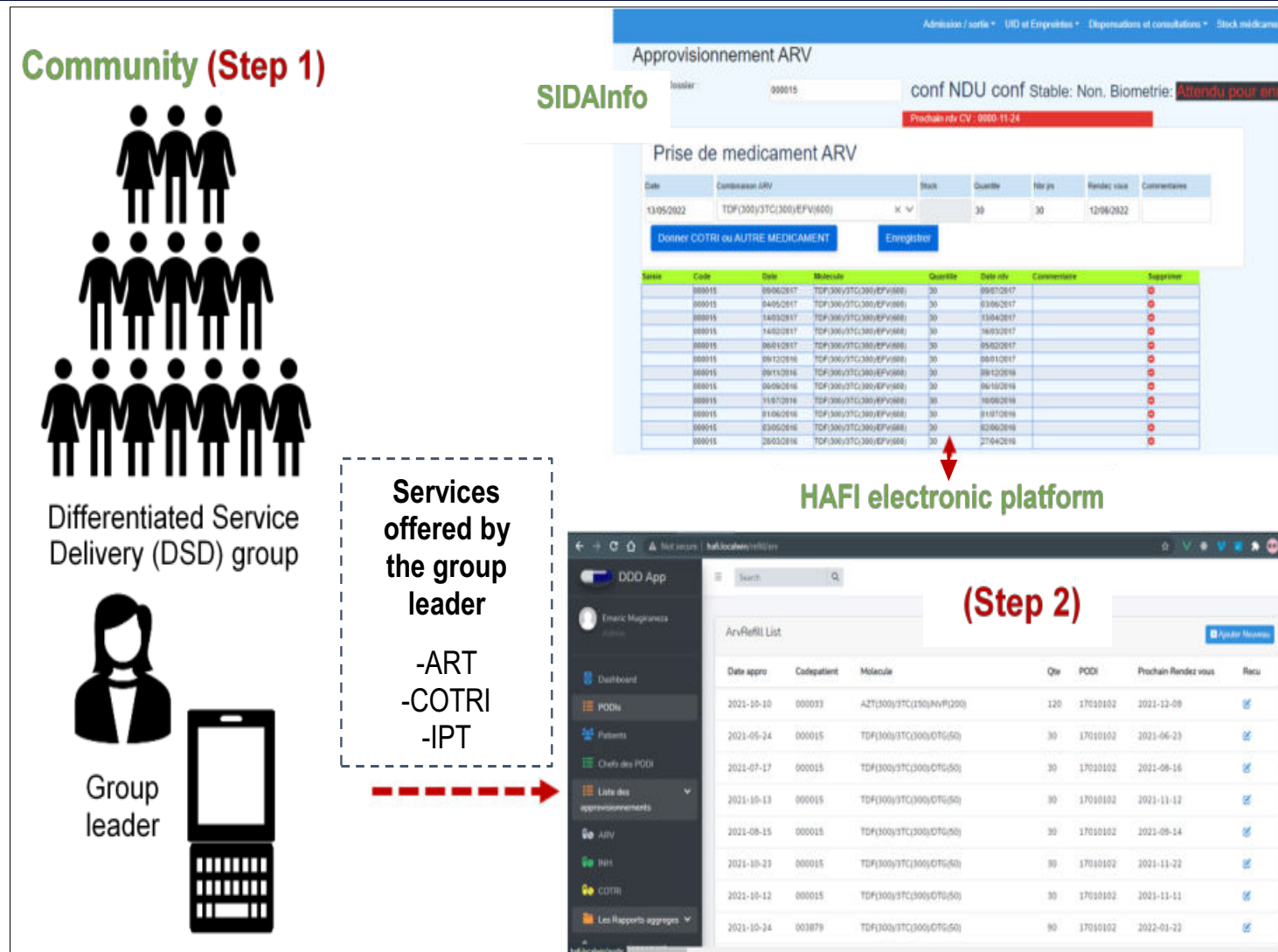


HAFI module of SIDAInfo

A web-based application to collect, record, and report differentiated services delivered (DSD)-based data using SMS and the web

Core functionalities

- Creation of a DSD group in the HAFI app, including the group leader (name of group leader, his/her phone number, DSD group).
- Each DSD group is linked to a specific health facility.
- Collection in the HAFI app of community DSD information from SMS, including ART, isoniazid, and cotrimoxazole refills.
- Retrieval of client information from the national EMR (SIDAInfo).
- Push/export client information from HAFI app to SIDAInfo.



SIDAInfo lab module for VL & EID: IBIPIIMO



Patient Notification

Notifies patients of the availability of their results at their facilities via SMS

Single click results

Laboratories can share VL/EID PCR results on a single click

Access any time

VL/EID PCR results are always available on the internet for authorized & authenticated users and can be downloaded in Excel for further analysis

SMS sharing

Results can be shared with health workers via SMS. Site managers receive notifications and results via e-mails.

Lessons learned

- The implementation of SIDAInfo, the web-based EMR is contributing to improve patient quality of care and differentiated service delivery;
- SIDAInfo Helps to identify index testing opportunities for HIV-exposed infants and sexual partners;
- Unique Identifier of HIV-positive allows clients' mobility across facilities and guaranties the continuity to treatment;
- This Unique Identifier helps to avoid PLHIV multiple counting;
- SIDAInfo provides opportunities to reduce IIT through indicating patient appointment default;
- SIDAInfo helps to tracks patient- and clinic-level viral load testing status in order to make sure that all eligible patients have received the viral load at a given period;
- SIDAInfo is easily customized (developed locally);
- The SIDAInfo system architecture allows a continuous work even without an internet connection,

Constraints

- All clients not yet enrolled for the different reasons:
 - ☞ Only high volume facilities (>100 PLHIV on ART) which represent 80% of PLHIV on ART are currently using the SIDAInfo/UID system;
 - ☞ Clients come into contact with the facility after a long period of time (MMD);
- Internet connectivity issues;
- Power instability.

HIV Learning Network

The CQUIN Project for Differentiated Service Delivery



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Data.FI
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Thank you!

