

An open-source medical equipment management and maintenance solution

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OpenClinic GA


OpenClinic GA overview

- .Patient registration and management*
- .Administration and finances*
- .Medical record (ICPC and ICD 10 coding)*
- .Laboratory and Imaging*
- .Network functions (reporting / Global Health Obs / GMAO)*

GMAO functions


- .Medical devices inventory*
- .Infrastructure inventory*
- .Preventive maintenance scheme*
- .Corrective maintenance scheme*

OpenClinic GA Overview

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OpenClinic GA

Open Source Integrated Hospital Information Management System
Brought to you by: [frankverbeke](#)

★★★★★ 25 Reviews Downloads: 207 This Week Last Update: 2019-03-20

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OpenClinic GA is an open source integrated hospital information management system covering management of administrative, financial, clinical, lab, x-ray, pharmacy, meals distribution and other data. Extensive statistical and reporting capabilities.

Features

- Focused on limited resource hospitals
- Multilingual: english, french, dutch, spanish and portuguese available
- 500+ implementations in Rwanda, 5 in DRC, 4 in Mali and 5 in Burundi covering hospitals
- Human resource management module available
- Full scheduling system integrated
- 3BT clinical thesaurus with validated coding aid for ICD-10 and ICPC-2
- Efficient database connection pooling with Primrose engine starting from version 4.0
- Mobile web interface with bar-code recognition on Android devices
- Integrated solution for archiving of scanned

OpenClinic GA Overview

Patient registration and management

The screenshot shows the OpenClinic GA interface for patient VERBEKE, FRANK. The browser title is "MXS - OpenClinic - VERBEKE, FRANK - - Mozilla Firefox". The patient's details are as follows:

- Name: VERBEKE, Firstname: FRANK, Date of birth: 23/08/1963 (49 years)
- Nat reg: [empty], Record number: 3, Archive code: [empty], Person ID: 3
- Service: CONSULTATION, District: [empty]

Navigation: Home > Medical summary

Administrative section (Last access on 11-04-2013 - 09:56:03 per MARIE OPENCLINIC):

- Encounter status: Previous admission: 09/03/2013, Previous visit: 12/03/2013
- Encounter table:

ID	Type	Outset date	Service	Care provider
1.193	Visit	11/04/2013	PED.COM: CONSULTATION	
- Financial status: Balance: -6484,05 EUR, Latest zero balance: [empty]
- Insurance data table:

Insurance number	Company	Tariff category	Outset
privé (A: 100/0)		C: Private	27/03/2013
test	MFP (A: 15/85)	B: RAMA/MMI	27/03/2013
423456789	RAMA (A: 15/86)	BI-RAMA/MMI	42/03/2013
- Planning: [empty]

Medical section:

- Medication: Prescription Ampiciline pélule 500mg (4.0 gelules per day) (After 09/02/2013). Delivered medication <14 days.
- Vaccinations: [empty]
- Warnings: [empty]
- Problem list: [empty]
- Reasons for the active encounter: [empty]

Health record table:

Date	Contact type	User
20/03/2013	Lung function examination	MARIE, OPENCLINIC
20/03/2013	Erootherapy	MARIE, OPENCLINIC
20/03/2013	EMG	MARIE, OPENCLINIC
03/03/2013	Lab request	MARIE, OPENCLINIC

Record summary

OpenClinic GA Overview

Medical record

Patient | Medical summary | Nursing | Applications | Documents | System | Immo | Help

Name VERBEKE Firstname FRANK Date of birth 23/08/1963 (49 years)
Nat reg Record number 3 Archive code Person ID 3
Service CONSULTATION District Find Clear

OpenClinic v4.14.2 (31/03/2013)

Home > ADT

Encounter

Type *	Visit
Outset date *	11/04/2013 09:58
Final date	
Origin *	Health center
Administrator	
Service *	CONSULTATION
Internal transfers	11/04/2013 00:00 - CONSULTATION Bed: Administrator.
Situation	Zone
Evolution	Choose
Destination	
Category	<input type="radio"/> Natural disease <input type="radio"/> Occupational disease <input type="radio"/> Work accident <input type="radio"/> Traffic accident <input type="radio"/> Other accident

Save Back

* mandatory fields

Reasons for encounter ICD-2/ICD-10

- ICD10 K52.9 NONINFECTIVE GASTROENTERITIS AND COLITIS, UNSPECIFIED
- ICPC D1100 DIARRHOEA

OpenClinic GA Overview

Also :

- .Laboratory instruments and (LOINC) interface*
- .Imaging : integrated PACS*
- .Pharmacy stock management*
- .Medication interactions detection and reporting*
- .Network functions (Web user-interface, reporting / Global Health Observatory / GMAO)*

OpenClinic GA Overview

Network functions (Web user-interface, reporting / Global Health Observatory / GMAO)

.User interface : workstations (diskless / laptops/ ...)

.Reporting : ideal case : single mouse click by the Director and transmission in DHIS2 format

.If agreed upon : daily reporting to Global Health Barometer

OpenClinic GA Overview

Global Health Barometer



The Global Health Barometer monitors activity from a large number of health facilities worldwide where the [OpenClinic](#) hospital information management system has been implemented. Only sites with activity in the last 90 days are being shown. Use your [login](#) to see more detailed information.

Total	584 Sites in 73 countries [GIS] [GISmap]	Patients [GIS] [GISmap]	Outpatients [GIS] [GISmap]	Admissions [GIS] [GISmap]	Lab analyses [GIS] [GISmap]	Invoices [GIS] [GISmap]	Care deliveries [GIS] [GISmap]
		14,789,594	29,034,611	3,369,752	74,701,628	37,027,141	223,014,133
+ AF - AFGHANISTAN	1 Sites in 1 Cities	1	0	1	0	1	2
+ AL - ALBANIA	2 Sites in 1 Cities	3	0	2	0	2	4
+ AR - ARGENTINA	1 Sites in 1 Cities	16	9	2	81	13	13
+ AT - AUSTRIA	1 Sites in 1 Cities	1	0	1	0	1	2
+ BE - BELGIË	9 Sites in 6 Cities	149,891	277,661	13,369	1,561,957	322,517	2,359,089
+ BD - BANGLADESH	3 Sites in 2 Cities	19	9	4	81	15	17
+ BF - BURKINA FASO	12 Sites in 2 Cities	612	596	12	0	461	614
+ BI - BURUNDI	85 Sites in 11 Cities	3,256,311	10,637,022	1,248,249	24,218,051	14,516,331	79,260,342
+ BO - BOLIVIA	8 Sites in 3 Cities	12	4	9	23	8	17
+ BQ - BQ	2 Sites in 1 Cities	2	0	2	0	2	4
+ BR - BRAZIL	11 Sites in 10 Cities	14	3	12	0	11	22
+ CA - CANADA	2 Sites in 2 Cities	21	11	2	81	14	15
+ CD - CONGO, DEMOCRATIC REPUBLIC OF (WAS ZAIRE)	33 Sites in 10 Cities	556,631	457,741	79,813	1,603,160	642,888	7,248,339













OpenClinic GA Overview

Global Health Barometer

BI - BURUNDI	85 Sites in 11 Cities	3,256,311	10,637,022	1,248,249
[0] BUJU,BURA (v5091018)	22/04/2019	1	0	1
[1] BUJUMBURA (v5098003)	11/04/2019	74,627	215,963	7,751
[2] BUJUMBURA (v5098003)	14/04/2019	74,685	216,238	7,757
[3] BUJUMBURA (v5086001)	08/05/2019	67,740	159,927	23,587
[4] BUJUMBURA (v5086001)	08/05/2019	78,891	331,102	8,710
[5] BUJUMBURA (v5116003)	08/05/2019	147,025	372,646	68,445
[6] BUJUMBURA (v5009002)	02/03/2019	23	14	2
[7] BUJUMBURA (v5086001)	25/05/2019	25,847	47,761	7,039
[8] BUJUMBURA (v5050003)	24/05/2019	240	0	0
[9] BUJUMBURA (v5091018)	26/05/2019	200,131	432,958	112,015
[10] BUJUMBURA (v5083001)	25/05/2019	16	9	2
[11] BUJUMBURA (v5091018)	23/03/2019	1	0	1
[12] BUJUMBURA (v5098009)	08/05/2019	278,876	1,898,188	133,423
[13] BUJUMBURA (v5091018)	15/03/2019	3	1	1
[14] BUJUMBURA (v5091018)	01/03/2019	212,621	470,025	119,966
[15] BUJUMBURA (v5091018)	24/04/2019	217,883	486,214	123,592
[16] BUJUMBURA (v5091018)	07/03/2019	2	0	1
[17] BUJUMBURA (v5091018)	08/03/2019	1	0	1
[18] BUJUMBURA (v5091018)	14/05/2019	3	2	1
[19] BUJUMBURA (v5091018)	13/05/2019	3	0	3
[20] BUJUMBURA (v5091018)	25/03/2019	3	3	1
[21] BUJUMBURA (v5091018)	08/03/2019	1	0	1
[22] BUJUMBURA (v5009002)	24/03/2019	17	9	2
[23] BUJUMBURA (v5009002)	11/04/2019	16	9	2
[24] BUJUMBURA (v5009002)	07/04/2019	17	10	3
[25] BUJUMBURA (v5009002)	08/03/2019	16	9	2
[26] BUJUMBURA (v5009002)	08/03/2019	16	9	2

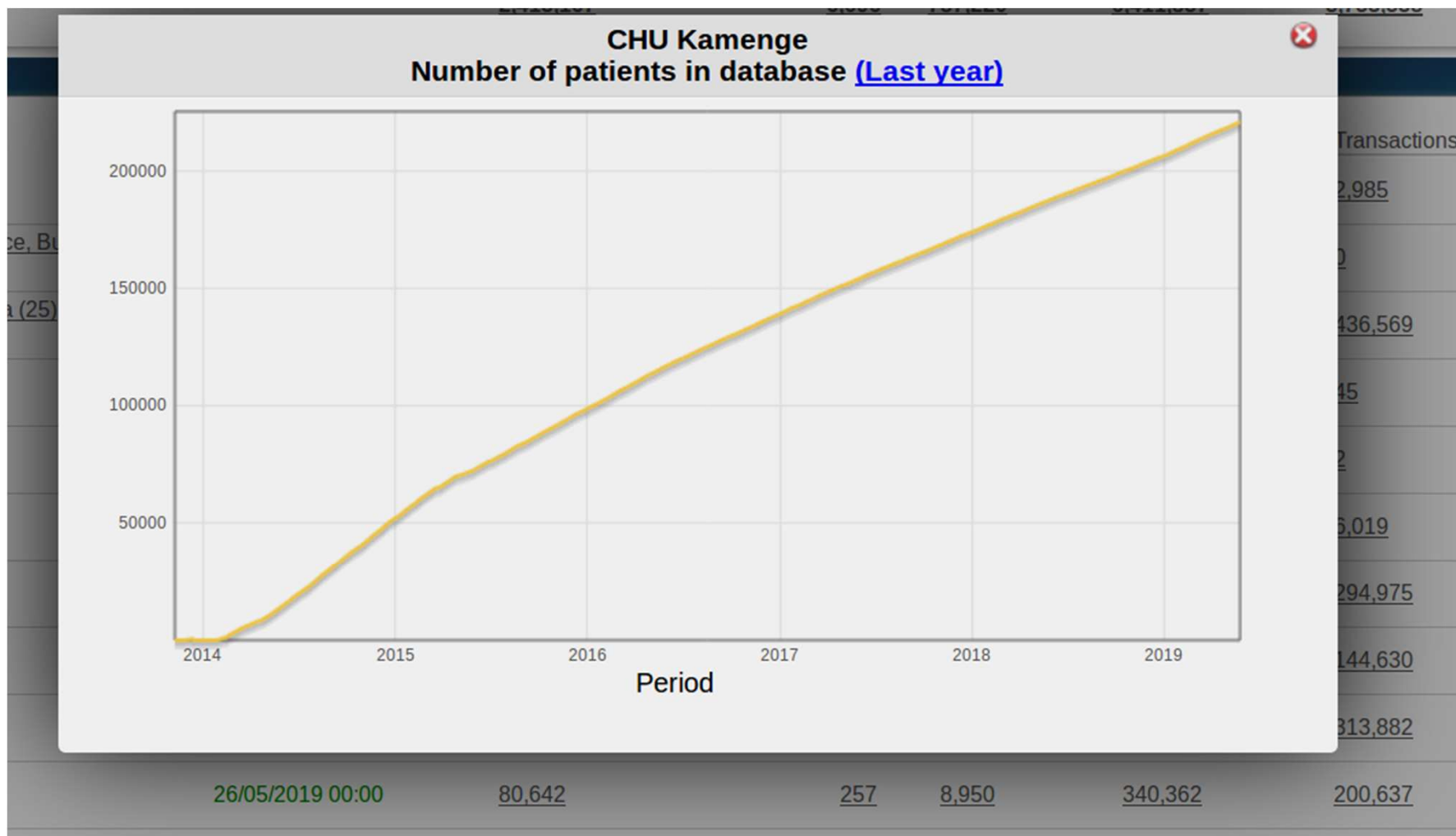
OpenClinic GA Overview

Global Health Barometer

Burundi									
		Last update	Patients	Users	Admissions	Consultations	Transactions	Diagnoses	Care deliveries
	1. Medical-Surgical Center of Kinindo (21)	26/05/2019 00:02	<u>75,519</u>	<u>120</u>	<u>7,900</u>	<u>220,057</u>	<u>2,985</u>	<u>504</u>	<u>1,148,086</u>
	2. United Nations Integrated Medical Service, Bujumbura (24)	28/04/2014 08:37	<u>1</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>
	3. Military Hospital of Kamenge, Bujumbura (25)	26/05/2019 00:01	<u>280,166</u>	<u>920</u>	<u>135,620</u>	<u>1,912,025</u>	<u>436,569</u>	<u>55,283</u>	<u>9,638,580</u>
	4. Open-IT Headquarters (27)	23/03/2015 16:04	<u>73</u>	<u>31</u>	<u>21</u>	<u>54</u>	<u>45</u>	<u>8</u>	<u>520</u>
	5. Clinique de l'oeil (28)	17/09/2012 09:44	<u>5</u>	<u>5</u>	<u>0</u>	<u>5</u>	<u>2</u>	<u>0</u>	<u>3</u>
	6. Handicap International Gitega (30)	11/03/2015 11:47	<u>5,167</u>	<u>4</u>	<u>181</u>	<u>8,400</u>	<u>6,019</u>	<u>5,415</u>	<u>16,526</u>
	7. Clinique Prince Louis Rwagasore (36)	26/05/2019 00:00	<u>69,017</u>	<u>322</u>	<u>24,190</u>	<u>163,807</u>	<u>294,975</u>	<u>128,750</u>	<u>1,858,376</u>
	8. CHU Kamenge (39)	26/05/2019 05:00	<u>221,048</u>	<u>495</u>	<u>125,647</u>	<u>495,930</u>	<u>144,630</u>	<u>55,323</u>	<u>6,838,871</u>
	9. Hôpital Prince Régent Charles (47)	26/05/2019 05:00	<u>148,465</u>	<u>559</u>	<u>69,213</u>	<u>377,426</u>	<u>313,882</u>	<u>109,503</u>	<u>4,862,603</u>
	10. KIRA Hospital (48)	26/05/2019 00:00	<u>80,642</u>	<u>257</u>	<u>8,950</u>	<u>340,362</u>	<u>200,637</u>	<u>38,537</u>	<u>1,622,336</u>
	11. REMA Hospital (50)	20/11/2015 12:03	<u>6,420</u>	<u>93</u>	<u>1,313</u>	<u>12,832</u>	<u>0</u>	<u>0</u>	<u>92,646</u>
	12. Ngozi Regional Hospital (51)	21/04/2019 05:00	<u>97,008</u>	<u>227</u>	<u>88,595</u>	<u>285,701</u>	<u>296,115</u>	<u>61,777</u>	<u>2,255,224</u>

OpenClinic GA Overview

Global Health Barometer



OpenClinic GA Overview

Global Health Barometer

Demographics	
Men	85,267 (38.57%)
Women	134,997 (61.07%)
Children less than 5	33,644 (15.22%)

Financial data	
2019	

Diagnostics		
All	2019	
01A	INTESTINAL INFECTIOUS DISEASES	91
01B	TUBERCULOSIS	6
01D	OTHER BACTERIAL DISEASES	49
01E	INFECTIONS WITH A PREDOMINANTLY SEXUAL MODE OF TRANSMISSION	7
01I	VIRAL INFECTIONS OF THE CENTRAL NERVOUS SYSTEM	1
01K	VIRAL INFECTIONS CHARACTERIZED BY SKIN AND MUCOUS MEMBRANE LESIONS	14
01L	VIRAL HEPATITIS	13
01M	HUMAN IMMUNODEFICIENCY VIRUS [HIV] DISEASE	1
01N	OTHER VIRAL DISEASES	10
01O	MYCOSES	92
01Q	HELMINTHIASES	98
01T	BACTERIAL, VIRAL AND OTHER INFECTIOUS AGENTS	2
01U	OTHER INFECTIOUS DISEASES	10
01V	MALARIA	194
02A	MALIGNANT NEOPLASMS, STATED OR PRESUMED TO BE PRIMARY, OF SPECIFIED SITES, EXCEPT OF LYMPHOID, HAEMATOPOIETIC AND RELATED TISSUE	14
02E	IN SITU NEOPLASMS	1
02F	BENIGN NEOPLASMS	20
03A	NUTRITIONAL ANAEMIAS	31
03B	HAEMOLYTIC ANAEMIAS	16
03C	APLASTIC AND OTHER ANAEMIAS	1

OpenClinic GA Overview

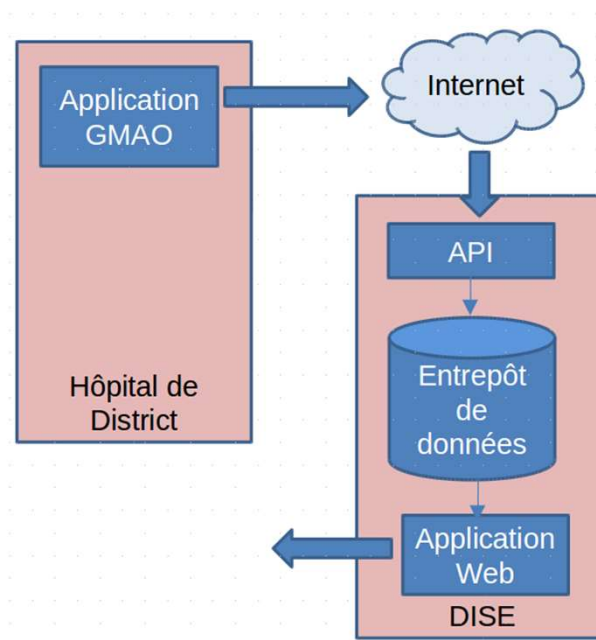
GMAO = *Gestion de la Maintenance Assistée par Ordinateur*

Functions :

- .Medical devices inventory*
- .Infrastructure inventory*
- .Preventive maintenance scheme*
- .Corrective maintenance scheme*
- .Per user time schedule summary*

GMAO functions

- .Medical devices inventory*
- .Infrastructure inventory*



GMAO functions

Preventive maintenance scheme

- .Input comes from the inventory*
- .Each device has its own protocol*
- .Starting date : when put in operation*

Corrective maintenance scheme

- .Depends on the institution !*
- .Work orders and follow-up forms*
- .Need for a ticketing system*

GMAO functions

Applications Rappports Système Info OpenClinic GMAO

Home > Inventaire

Inventaire

Service *	<input type="text"/>	Code *	<input type="text"/>
Nomenclature *	<input type="text"/>	Identifiant unique	<input type="text"/>
Description *	<input type="text"/>		
Etat *	<input type="text"/>	Fonctionnalité	<input type="text"/>
Numéro de série/cadastre	<input type="text"/>	Quantité *	<input type="text" value="1.0"/>
Marque	<input type="text"/>	Modèle	<input type="text"/>
Caracteristiques techniques	<input type="text"/>		Tension <input type="text"/> V Puissance <input type="text"/> W
Composantes +	<input type="text"/>		
Fournisseur	<input type="text"/>	Date d'achat	<input type="text"/>
Date de fabrication	<input type="text"/>	Date de livraison	<input type="text"/>
Prix d'achat	<input type="text" value="0.0"/> BIF	Source de financement *	<input type="text"/>
Date de vente ou évacuation	<input type="text"/>	Valeur de vente	<input type="text" value="0.0"/> BIF
Documents +	<input type="text"/>		
Comptabilité	Montrez Cachez		

Sauvegarder Effacer Liste Plans de maintenance Opérations Documents

* Obligatoire

GMAO functions

Nomenclature used in Burundi : tailored to local needs

Type d'équipement	Désignation	Type
Autre	Gravidomètre	Equipements techniques hospitaliers
Autre	Tire-lait	Equipements d'énergie
Autre	Autre	Equipements de sécurité
		Mobilier médical
Bureautique, informatique	Rétroprojecteur	Equipements médicaux
Bureautique, informatique	Autre	Outils et équipements d'atelier
		Bureautique, informatique
Equipements d'énergie	Cellule MT/BT	Autre
Equipements d'énergie	Chargeur de batterie	
Equipements d'énergie	Groupe électrogène	
Equipements d'énergie	Onduleur	
Equipements d'énergie	Stabilisateur	
Equipements d'énergie	Système de backup électrique	
Equipements d'énergie	Système solaire photovoltaïque	
Equipements d'énergie	Transformateur de tension	
Equipements d'énergie	Autre	
Equipements de sécurité	Extincteur à poudre	
Equipements de sécurité	Autre	
Equipements médicaux	Agitateur de labo	
Equipements médicaux	Amalgamateur	
Equipements médicaux	Analyseur d'hématologie	
Equipements médicaux	Appareil d'anesthésie	
Equipements médicaux	Appareil d'électrophorèse	
Equipements médicaux	Appareil d'électrothérapie	
Equipements médicaux	Appareil de photothérapie	

Conclusions

- .Benefits when all features are effectively used*
- .Depends a lot on management and individuals*
- .Link with ticketing / work-order system*
- .Local operation when the central database is « absent »*
- .Need for a totally free hierarchical international nomenclature for medical (as planned by WHO)*