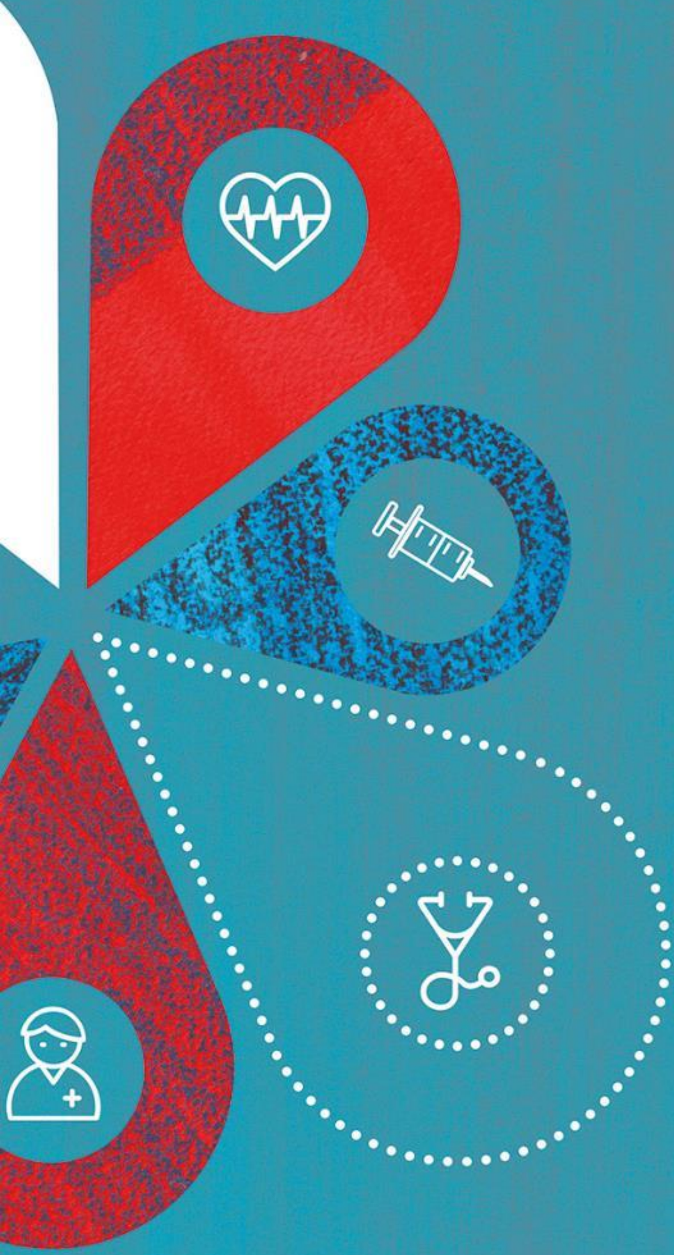


INFORMATIZZAZIONE DELL’OSPEDALE IN AFRICA

Le esperienze di Informatici Senza Frontiere

Dino Maurizio
Presidente
Informatici Senza Frontiere

INFORMATICI
SENZA
FRONTIERE

MEDICI
CON L’AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

INFORMATICI
SENZA
FRONTIERE

- Onlus
- Competenze Tecnologiche ICT
- Contesti di emarginazione

- Conoscenza
- Sviluppo Soluzioni Applicative
- Disabilita’

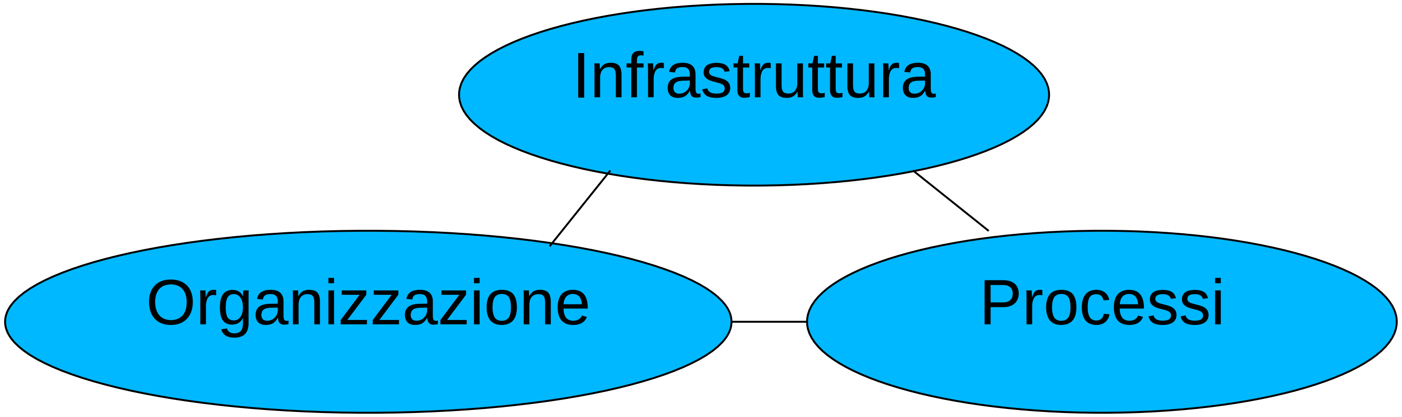
MEDICI
CON L’AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

INFORMATICI
SENZA
FRONTIERE

Perché Informatizzare?

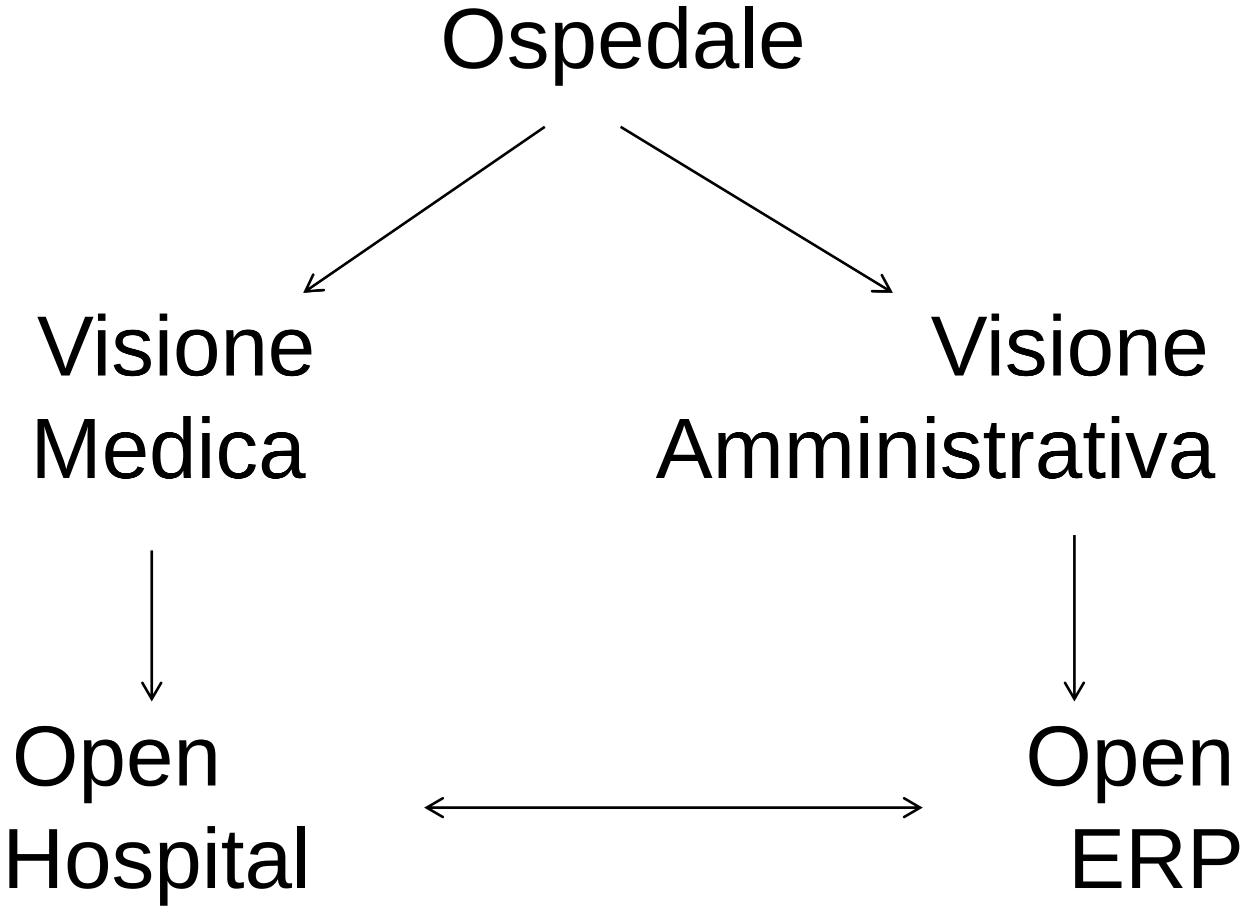
Aiuta a salvare vite


Infrastruttura
Organizzazione
Processi

MEDICI
CON L'AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

INFORMATICI
SENZA
FRONTIERE



Ospedale

Visione
Medica

Visione
Amministrativa

Open
Hospital

Open
ERP

MEDICI
CON L'AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

INFORMATICI
SENZA
FRONTIERE

OH OPEN HOSPITAL

- HIMS - Health Information Management System
- Open Source
- Multilingua (English, Italian, French, German, Spanish, Portuguese, Arabic, Swahili)
- Facile Utilizzo
- Ampiamente testato

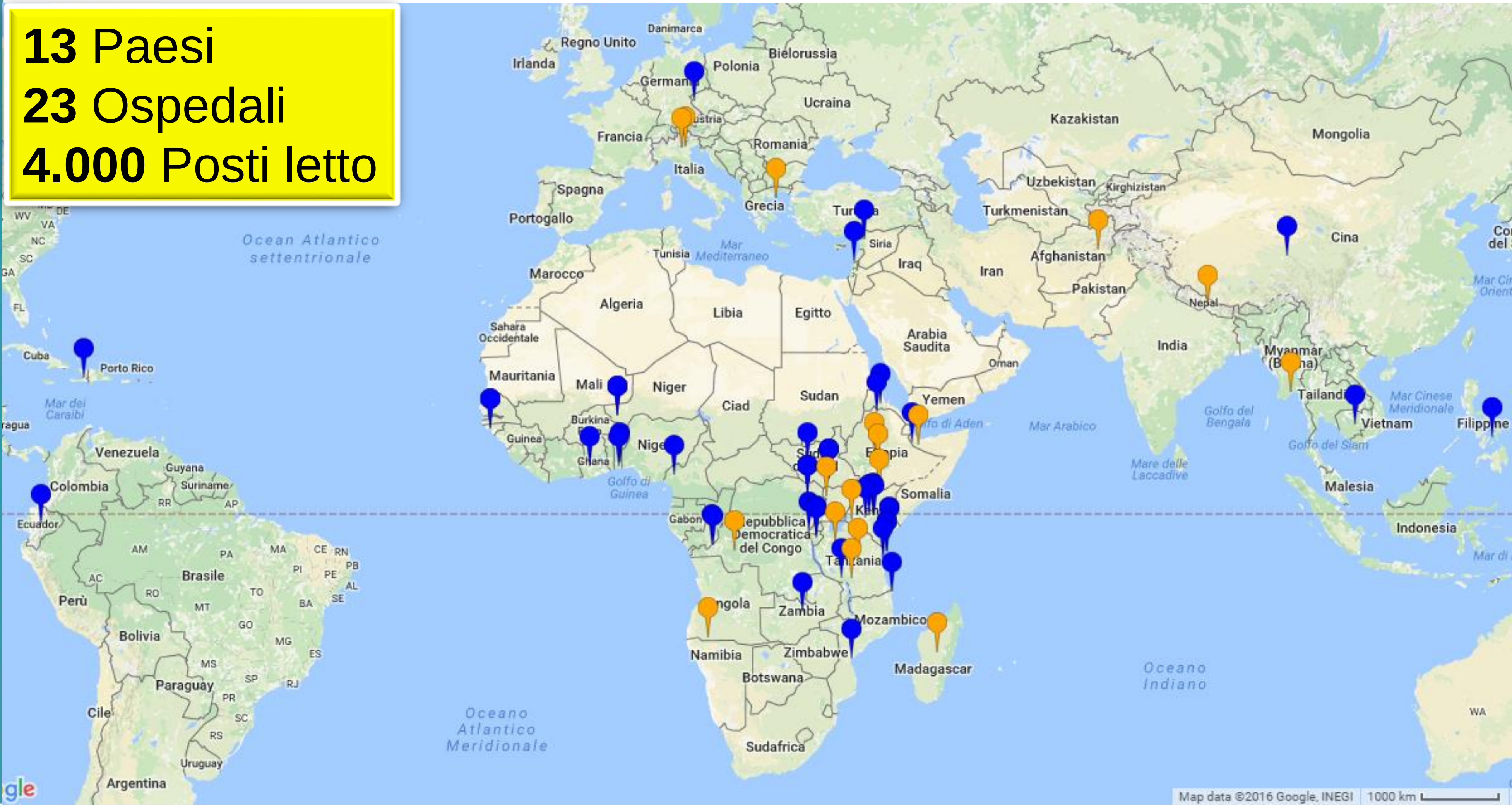
MEDICI
CON L'AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

INFORMATICI
SENZA
FRONTIERE

OH OPEN HOSPITAL

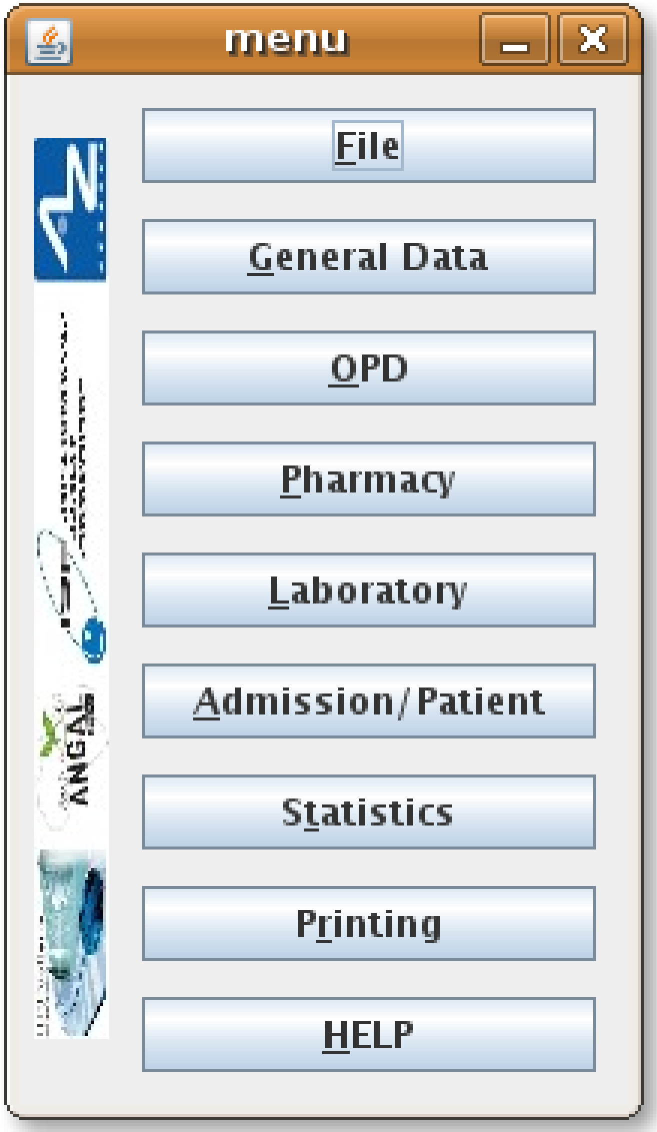
13 Paesi
23 Ospedali
4.000 Posti letto


Danimarca
Regno Unito
Irlanda
Polonia
Bielorussia
Germania
Ucraina
Austria
Francia
Romania
Kazakistan
Mongolia
Italia
Spagna
Uzbekistan
Kirghizistan
Grecia
Portogallo
Turchia
Turkmenistan
Cina
Ocean Atlantico settentrionale
Tunisia
Mar Mediterraneo
Siria
Iraq
Iran
Afghanistan
Marocco
Pakistan
Nepal
Algeria
Libia
Egitto
Sahara Occidentale
Arabia Saudita
India
Oman
Myanmar (Birmania)
Cuba
Porto Rico
Mauritania
Mali
Niger
Ciad
Sudan
Yemen
Mar dei Caraibi
Golfo di Aden
Mar Arabico
Golfo del Bengala
Tailandia
Mar Cinese Meridionale
Vietnam
Filippine
Burkina
Guinea
Ghana
Nigeria
Sud Sudan
Etiopia
Somalia
Golfo del Siam
Venezuela
Guyana
Suriname
Golfo di Guinea
Mare delle Laccadive
Malesia
Colombia
Ecuador
Gabon
Kenya
Repubblica Democratica del Congo
Indonesia
Tanzania
Brasile
Perù
Bolivia
Angola
Zambia
Mozambico
Madagascar
Namibia
Zimbabwe
Botswana
Paraguay
Oceano Indiano
Cile
Oceano Atlantico Meridionale
Sudafrica
Uruguay
Argentina
Google
Map data ©2016 Google, INEGI
1000 km

MEDICI CON L'AFRICA CUAMM

Centro
Salute Globale
Regione Toscana

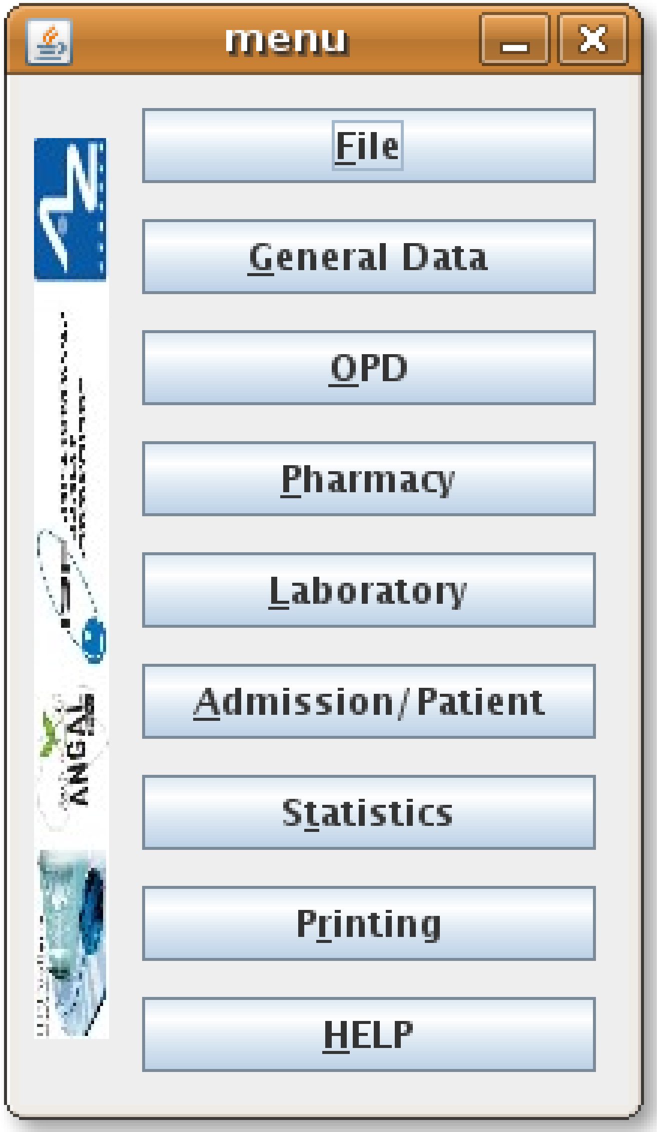
OH OPEN HOSPITAL

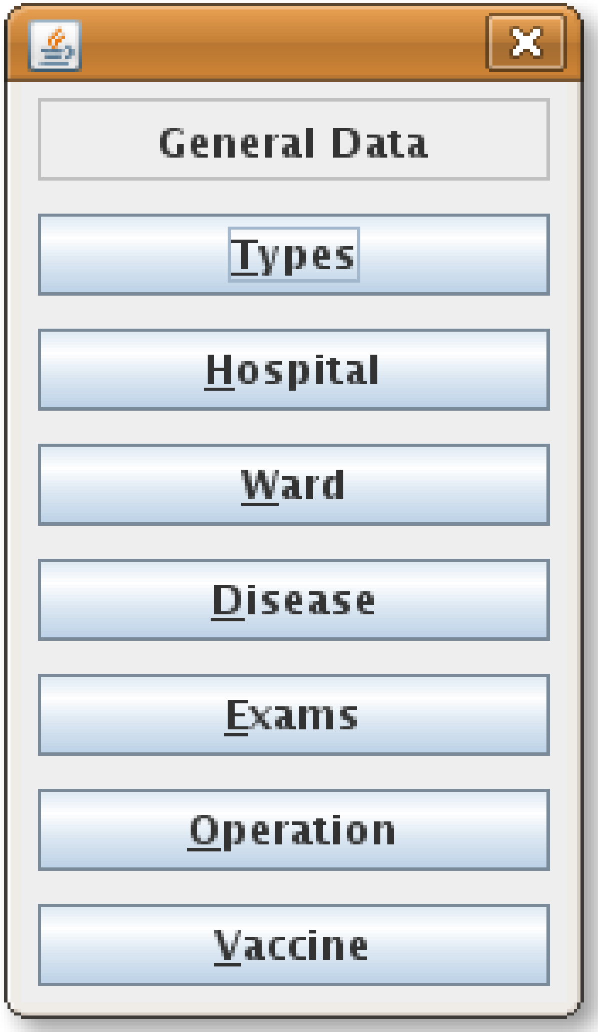

menu
File
General Data
OPD
Pharmacy
Laboratory
Admission/Patient
Statistics
Printing
HELP

MEDICI CON L'AFRICA CUAMM

Centro Salute Globale Regione Toscana

OH OPEN HOSPITAL

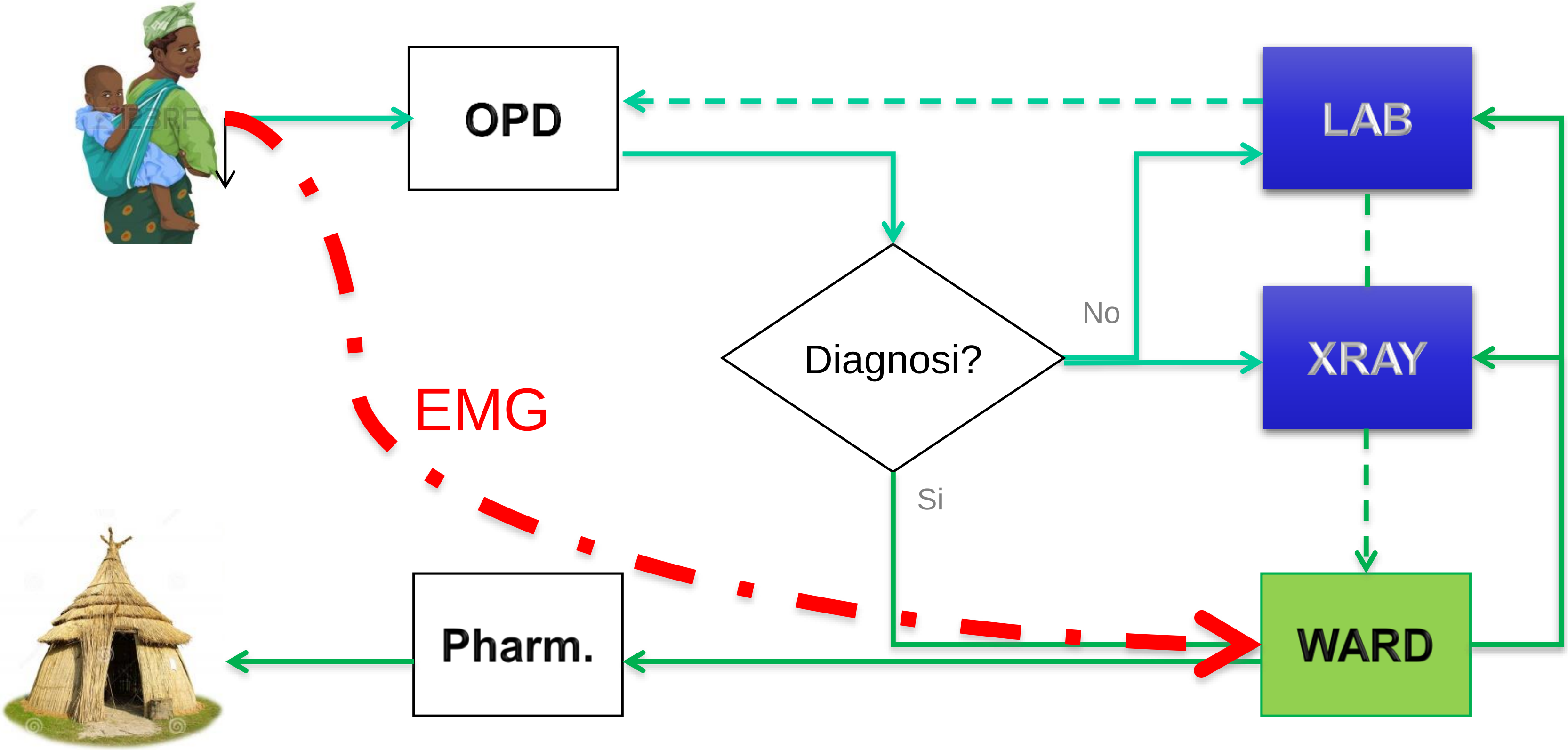

menu
File
General Data
OPD
Pharmacy
Laboratory
Admission/Patient
Statistics
Printing
HELP


General Data
Types
Hospital
Ward
Disease
Exams
Operation
Vaccine

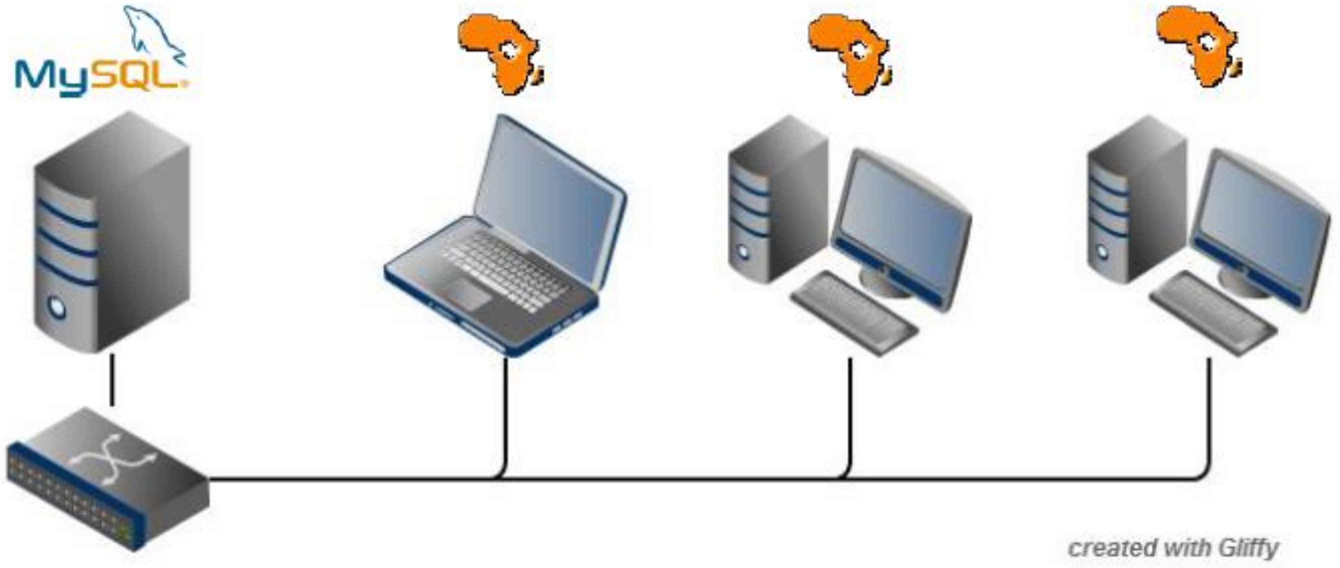
MEDICI CON L'AFRICA CUAMM

Centro
Salute Globale
Regione Toscana

Flusso paziente


OPD
LAB
No
Diagnosi?
XRAY
EMG
Si
Pharm.
WARD

Infrastruttura


MySQL
created with Gliffy

- ✓ Server Linux, con RAID 1 e backup UPS
- ✓ Clients di qualsiasi marca e modello, con utenti limitati

Fasi Realizzative

- Analisi Preparatoria (Questionari)
- Sopraluogo (1-2 settimane)
- Preparazione Applicazione (1+ mese)
- Installazione Infrastruttura (1 settimana)
- Training (2-4 settimane)
- Go Live (1 settimana)
- Follow up

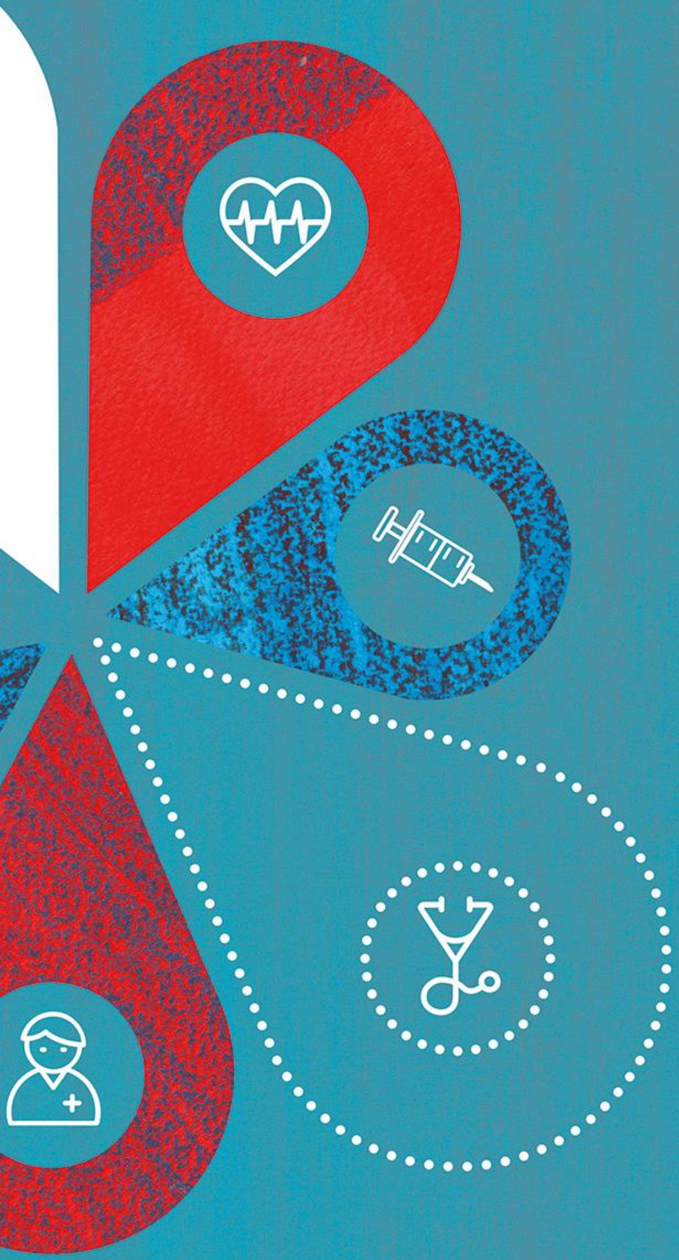
OH OPEN HOSPITAL

Punti Critici

- Volontà della Direzione Ospedale
- Focal Point Tecnico
- Documentazione
- Struttura Fisica (mura, energia, rete, etc.)
- Virus
- …..e ancora: Volontà della Direzione !!!

MEDICI CON L'AFRICA CUAMM

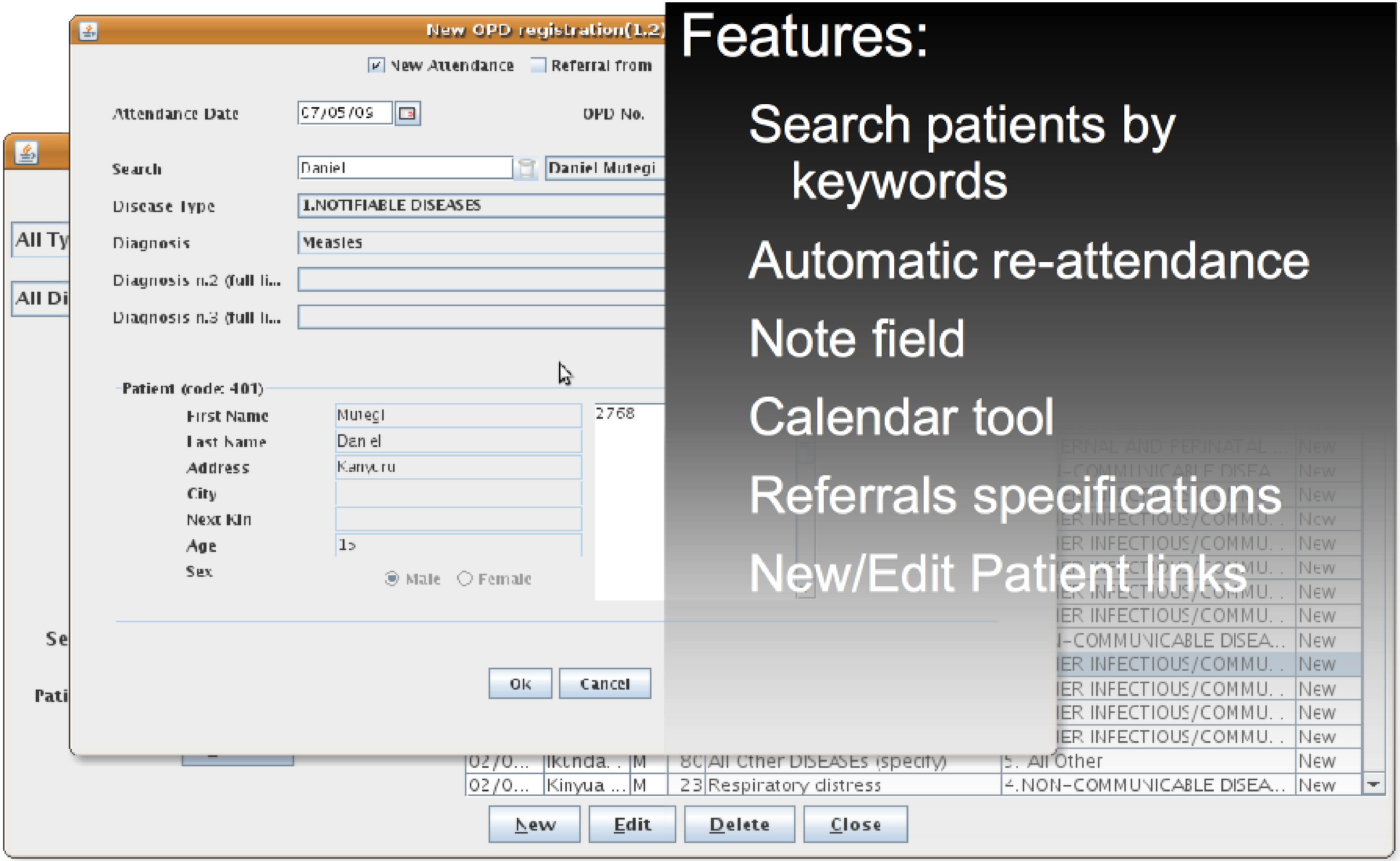
Centro Salute Globale Regione Toscana



«GRAZIE»

Dino Maurizio
Presidente
Informatici Senza Frontiere

OPD



New OPD registration(1.2)

☑ New Attendance ☐ Referral from

Attendance Date: 07/05/09

OPD No.

Search: Daniel — Daniel Mutegi

Disease Type: 1.NOTIFIABLE DISEASES

Diagnosis: Measles

Diagnosis n.2 (full li...

Diagnosis n.3 (full li...

Patient (code: 401)

First Name: Mutegi

Last Name: Daniel

Address: Kanyuru

City:

Next Kin:

Age: 15

Sex: ● Male ○ Female

2768

Ok
Cancel
All Ty
All Di
Se
Pati

02/0...	Ikunda. .	M	80	All Other DISEASES (specify)	5. All Other	New
02/0...	Kinyua ...	M	23	Respiratory distress	4.NON-COMMUNICABLE DISEA...	New

New
Edit
Delete
Close

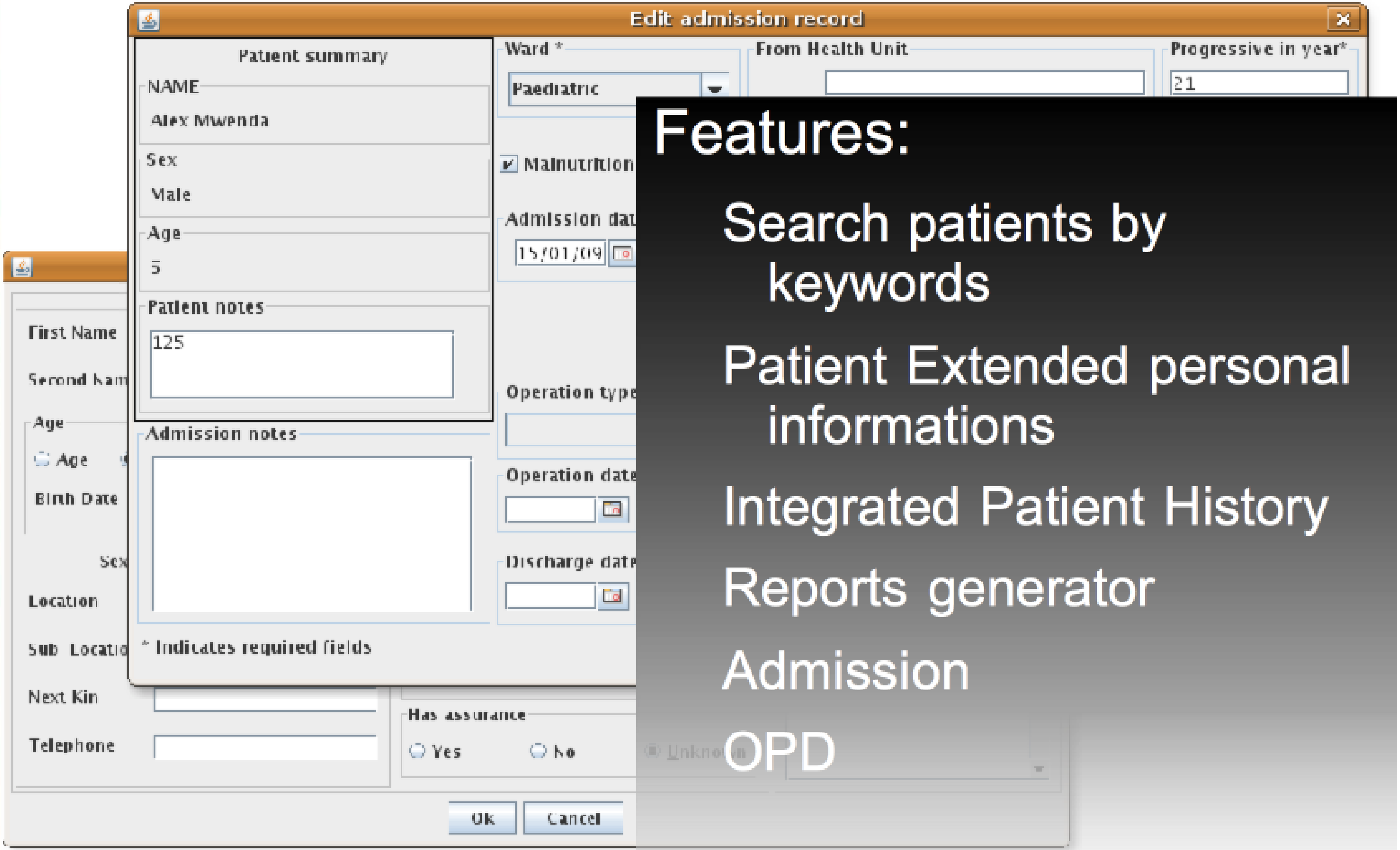
Features:

- Search patients by keywords
- Automatic re-attendance
- Note field
- Calendar tool
- Referrals specifications
- New/Edit Patient links

MEDICI CON L'AFRICA CUAMM

Centro Salute Globale Regione Toscana

Admission


Edit admission record
Patient summary
Admission notes
From Health Unit
Operation type
Operation date
Discharge date
First Name
Second Nam
Age
Birth Date
Sex
Location
Sub Locatio
Next Kin
Telephone
Has assurance
○ Yes
○ No
● Unknown
Ok
Cancel

NAME: Alex Mwenda

Sex: Male

Age: 5

Patient notes: 125

Ward *: Paedriatric

Progressive in year*: 21

☑ Malnutrition

Admission dat: 15/01/09

* Indicates required fields

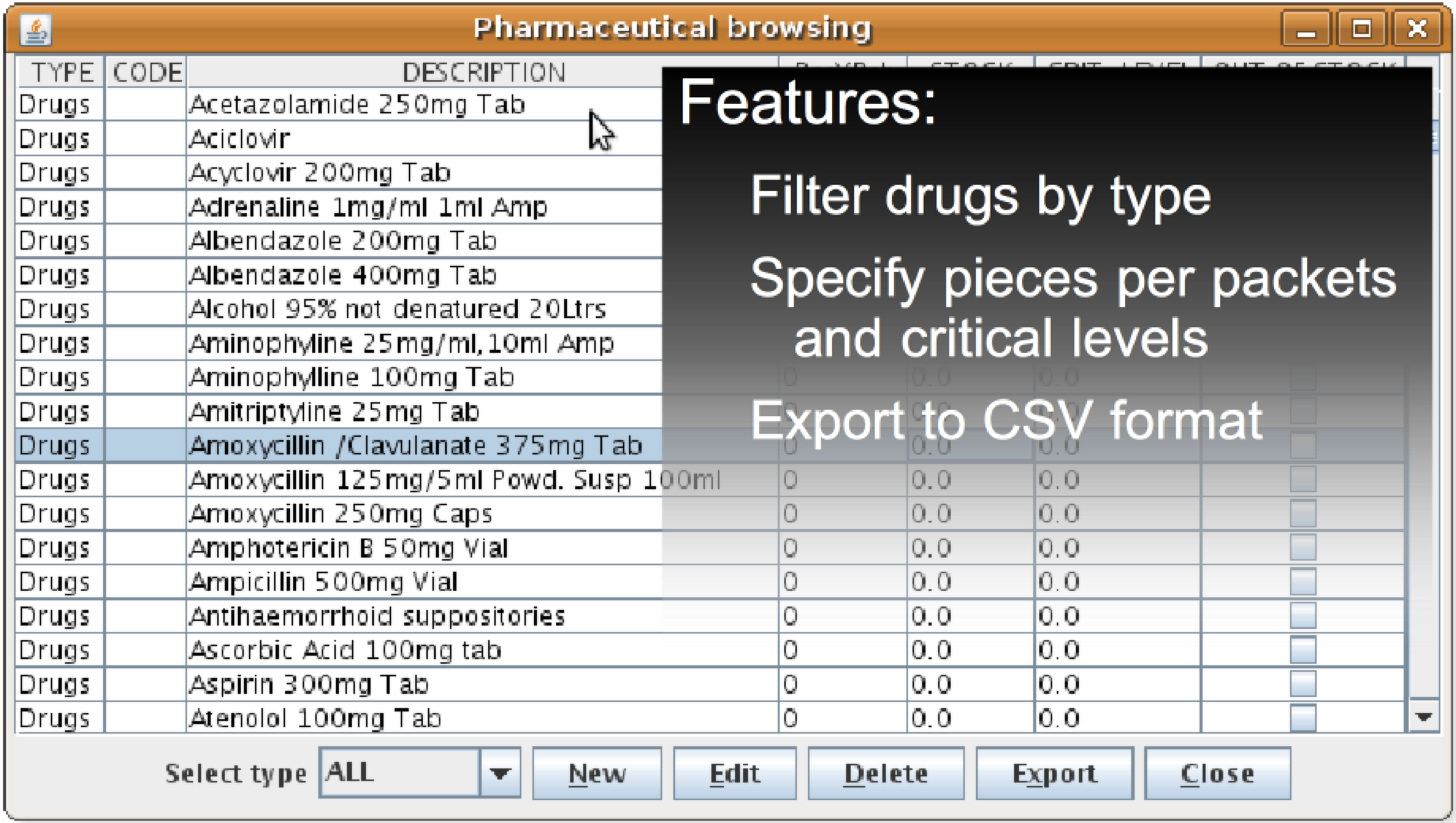
Features:

- Search patients by keywords
- Patient Extended personal informations
- Integrated Patient History
- Reports generator
- Admission
- OPD

MEDICI CON L'AFRICA CUAMM

Centro Salute Globale Regione Toscana

Pharmacy



Pharmaceutical browsing

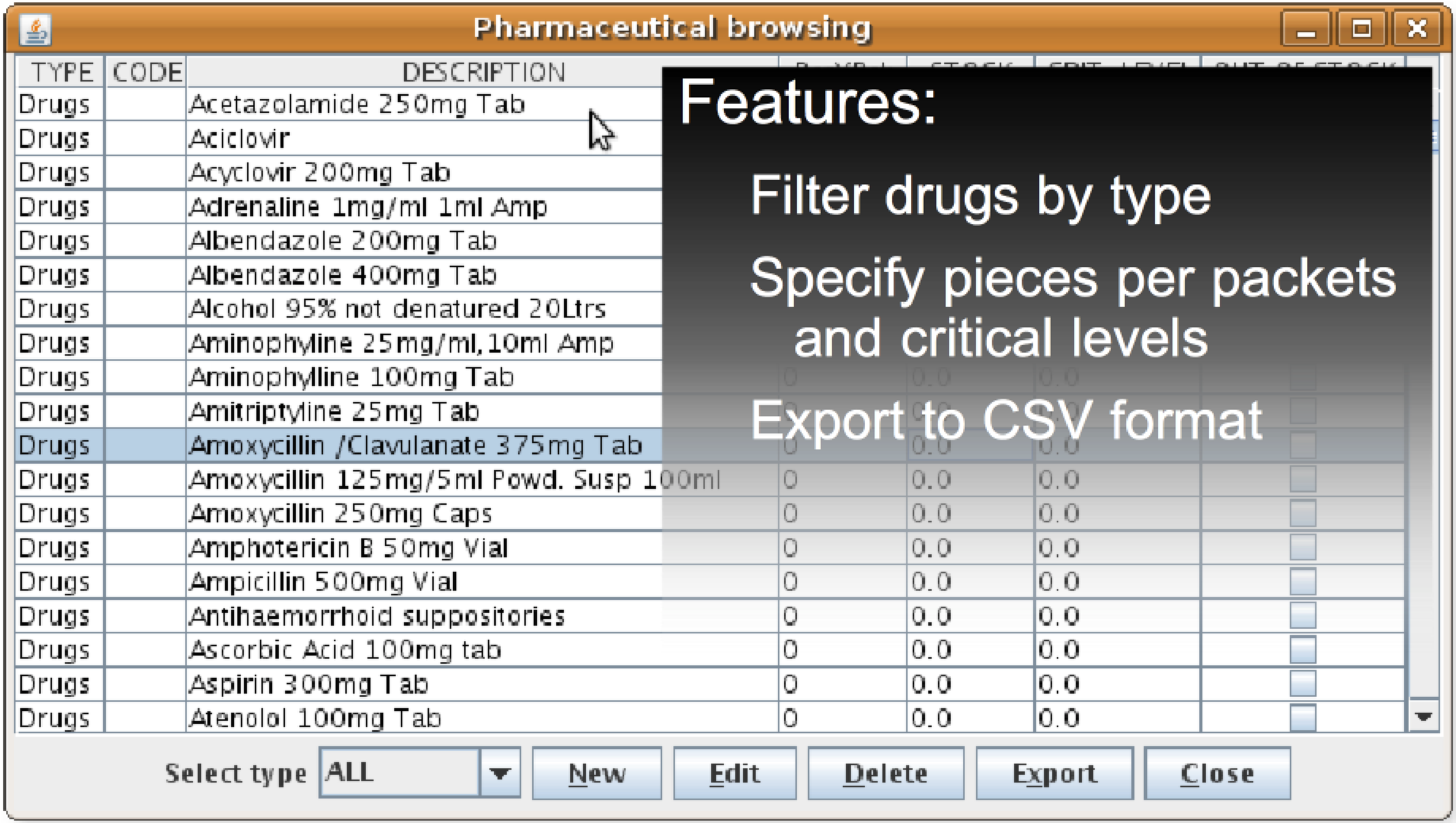
TYPE	CODE	DESCRIPTION	[illegible]	STOCK	CRIT. LEVEL	OUT OF STOCK
Drugs		Acetazolamide 250mg Tab				
Drugs		Aciclovir				
Drugs		Acyclovir 200mg Tab				
Drugs		Adrenaline 1mg/ml 1ml Amp				
Drugs		Albendazole 200mg Tab				
Drugs		Albendazole 400mg Tab				
Drugs		Alcohol 95% not denatured 20Ltrs				
Drugs		Aminophyline 25mg/ml,10ml Amp				
Drugs		Aminophylline 100mg Tab	0	0.0	0.0	☐
Drugs		Amitriptyline 25mg Tab	0	0.0	0.0	☐
Drugs		Amoxycillin /Clavulanate 375mg Tab	0	0.0	0.0	☐
Drugs		Amoxycillin 125mg/5ml Powd. Susp 100ml	0	0.0	0.0	☐
Drugs		Amoxycillin 250mg Caps	0	0.0	0.0	☐
Drugs		Amphotericin B 50mg Vial	0	0.0	0.0	☐
Drugs		Ampicillin 500mg Vial	0	0.0	0.0	☐
Drugs		Antihaemorrhoid suppositories	0	0.0	0.0	☐
Drugs		Ascorbic Acid 100mg tab	0	0.0	0.0	☐
Drugs		Aspirin 300mg Tab	0	0.0	0.0	☐
Drugs		Atenolol 100mg Tab	0	0.0	0.0	☐

Select type: ALL

Features:

- Filter drugs by type
- Specify pieces per packets and critical levels
- Export to CSV format

Laboratory



TYPE	CODE	DESCRIPTION	[illegible]	STOCK	CRIT. LEVEL	OUT OF STOCK
Drugs		Acetazolamide 250mg Tab				
Drugs		Aciclovir				
Drugs		Acyclovir 200mg Tab				
Drugs		Adrenaline 1mg/ml 1ml Amp				
Drugs		Albendazole 200mg Tab				
Drugs		Albendazole 400mg Tab				
Drugs		Alcohol 95% not denatured 20Ltrs				
Drugs		Aminophyline 25mg/ml,10ml Amp				
Drugs		Aminophylline 100mg Tab	0	0.0	0.0	☐
Drugs		Amitriptyline 25mg Tab	0	0.0	0.0	☐
Drugs		Amoxycillin /Clavulanate 375mg Tab	0	0.0	0.0	☐
Drugs		Amoxycillin 125mg/5ml Powd. Susp 100ml	0	0.0	0.0	☐
Drugs		Amoxycillin 250mg Caps	0	0.0	0.0	☐
Drugs		Amphotericin B 50mg Vial	0	0.0	0.0	☐
Drugs		Ampicillin 500mg Vial	0	0.0	0.0	☐
Drugs		Antihaemorrhoid suppositories	0	0.0	0.0	☐
Drugs		Ascorbic Acid 100mg tab	0	0.0	0.0	☐
Drugs		Aspirin 300mg Tab	0	0.0	0.0	☐
Drugs		Atenolol 100mg Tab	0	0.0	0.0	☐

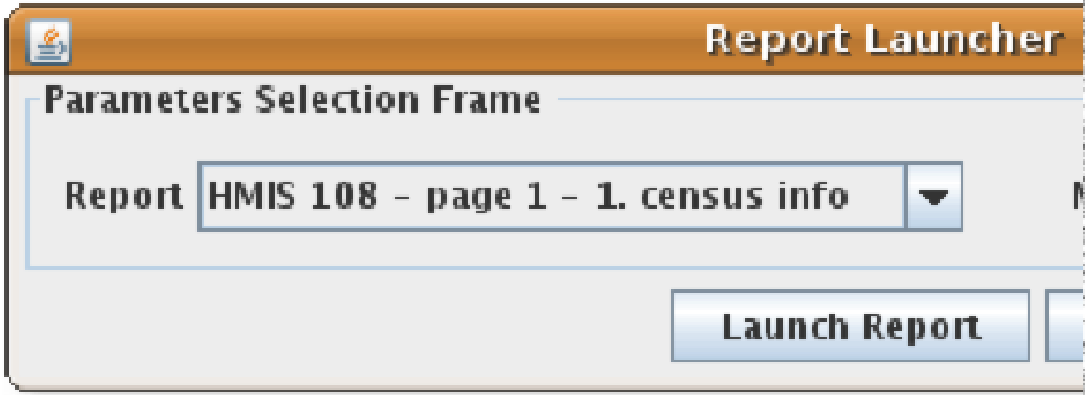
Select type: ALL

Features:

- Filter drugs by type
- Specify pieces per packets and critical levels
- Export to CSV format

Report

Statistics module allows to launch JasperReport® reports and show them on the screen, as well saving them as PDF or printing



Parameters Selection Frame

Report: HMIS 108 - page 1 - 1. census info

& HEALTH UNIT INPATIENT MONTHLY REPORT

Month: 6

Year: 2009

NUMBER OF ADMISSIONS AND DEATH BY DIAGNOSIS (disease IN, admission date)

Under five years older: Cases M F, Deaths M F

Five years and older: Cases M F, Deaths

MEDICI CON L'AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana

«GRAZIE»

Dino Maurizio
Presidente
Informatici Senza Frontiere

INFORMATICI
SENZA
FRONTIERE

MEDICI
CON L'AFRICA
CUAMM

Centro
Salute Globale
Regione Toscana