Note: This is a limited release to be used only for sites included in the smart card pilot. The release notes for the next release (14.2) will repeat the contents of these release notes plus any additional features included in that general release.

#### Table of contents:

#### Smart Card

Smart card integrated into patient workflow

User interface changes for smart card/fingerprinting

### Other User Interface Changes

Addition of bilateral pitting edema (nutritional) symptom

Muac added to ob-gyn forms

Death date on registration Form

Both lab order form and old iSanté lab form on new form list

Both rapid and microscopy malaria tests now included in iSanté lab form

**Imaging form** 

New reporting submenu and menu items

## Reporting Changes

Modifications to malaria surveillance

Surveillance of nutrition

Surveillance of tuberculosis

Modifications to HEALTHQUAL indicators

#### Administration items

Software required for fingerprinting and smart card

LDAP list URL now available to administrators

### **Smart Card**

## Smart card integrated into patient workflow

With this release, smart card technology is added to iSanté. Patients treated for HIV and other chronic diseases will be issued smart cards to provide improved continuity of care. The cards will hold patient identification information including iSanté ID, fingerprints, and the most recent clinical summary report. These cards will be issued at the completion of a patient's visit, in order to capture as much as possible of the patient's clinical findings within the summary report added to the card.

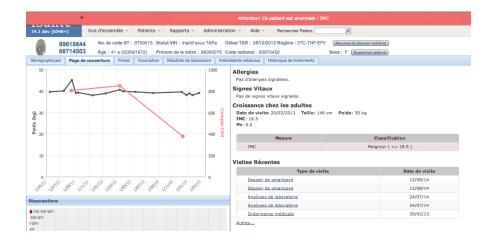
Workflow for fingerprinting and smart card is as follows:

- All patients visiting a site will be locally registered and fingerprinted.
- Patients visiting or transferring from a different site with a smart card will have that card read into the local record upon registration. A fingerprint swipe will be required to verify that the card applies to the patient.
- A fingerprint swipe can be used throughout the site for identification purposes and to retrieve the patient's record in iSanté
- Prior to departure from the site:
  - All patients with chronic conditions will be issued a freshly written smart card containing their fingerprints from the site, their country-wide iSanté ID, and their

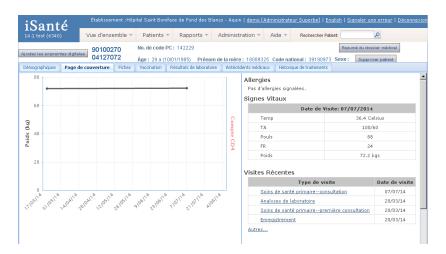
- up-to-date summary report.
- HIV patients who are visiting but not transferring to the site should have a discontinuation transaction written to their local site record.

### User interface changes for smart card/fingerprinting

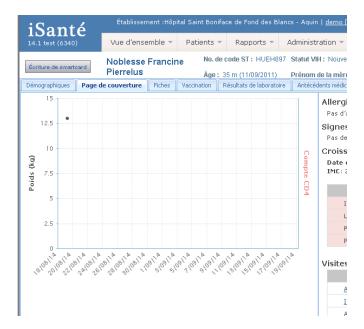
Fingerprinting and smart card technology only works with the Microsoft Internet Explorer browser and requires the appropriate fingerprint scanner, smart card reader, and client software (see Administration section below). On other browsers, the user interface for adding fingerprints, searching via fingerprint, and issuing smart card are not available. Fingerprinted patients show on these browsers with a small fingerprint image in the top left of the patient cover page:



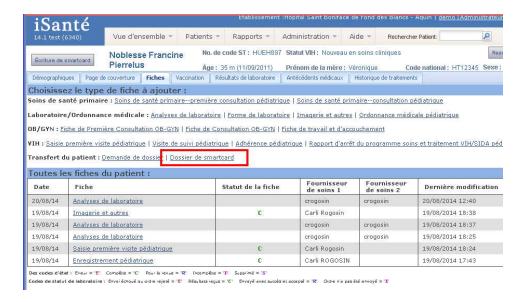
On the patient cover page, unprinted patients have a **Add fingerprints** button in the top left:



Printed patients have an **Issue smart card** button in the top left:



Patients visiting or transferring from a different site have a link at the bottom of the new forms section of the forms list page:



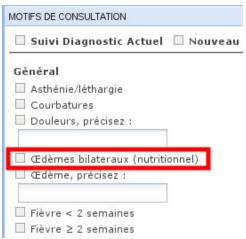
# **Other User Interface Changes**

## Addition of bilateral pitting edema (nutritional) symptom

A new symptom checkbox (see below) was added to the pediatric HIV+ intake and follow-up forms:

SYMPTÔMES				
Anorexie / Perte d'appétit	Eruption cutanée, <i>préciser</i> :			
Asthénie				
Céphalées	Fièvre inexpliquée < 1 mois			
Convulsions	Hémoptysie			
Diarrhée < 14 jours	☐Irritabilité			
Douleurs abdominales	Malaise			
Douleurs musculaires	Nausée / Vomissements			
□Dyspnée	□Œdèmes bilateraux (nutritionnel)			
SYMPTÔMES QUALIFIANT POU	IR LES STADES I-IV DE L'OMS			
OMS Stade I	OMS Stade II			
Asymptomatique	Diarrhée > 14 jours			
	Fièvre inexpliquée > 1 mois			

The new symptom checkbox (see below) was also added to the 'Motifs de Consultation' section of the pediatric primary care forms:



# Muac added to ob-gyn forms



# **Death date on registration Form**

It is now possible to record patient date of death on the registration form:



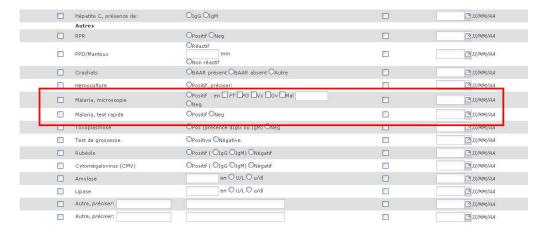
#### Both lab order form and old iSanté lab form on new form list

From the forms tab, it is now possible to access both the newer lab orders form and the older iSanté lab form. This allows for entry of tests and results for tests that are not included in the OpenElis test catalog. In the screenshot below, the left-hand circled link is for lab orders and the right-hand circled link is the older iSanté lab form.

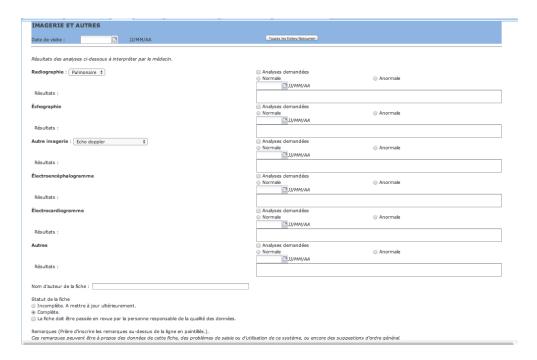


# Both rapid and microscopy malaria tests now included in iSanté lab form

Previous version of the iSanté lab form did not differentiate between malaria rapid test and microscopy test. The form is now adjusted for better reporting of these results:

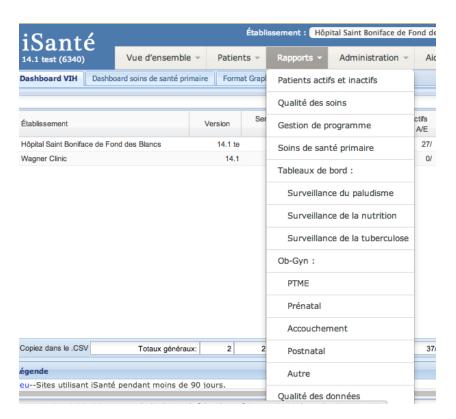


Imaging orders and results are now available separately from the older iSanté lab form:



### New reporting submenu and menu items

A **Dashboards** (**Tableaux de bord**) submenu which includes the indicator for surveillance of malaria and the new indicators for surveillance of nutrition and tuberculosis is added to the Report menu:



# **Reporting Changes**

# **Modifications to malaria surveillance**

Both the indicators for malaria surveillance and the ways they are aggregated have been changed. The indicator definitions are now as follows:

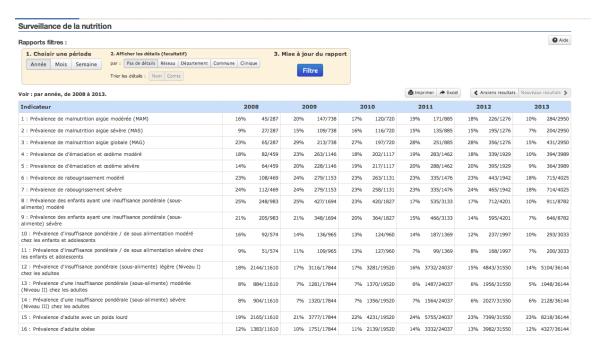
Indicateur
1 : T: Pourcentage de patients ayant eu la fièvre au cours des 2 dernières semaines (OMS)
2 : T: Pourcentage de patients avec fièvre (cas suspect) ayant reçu un antipaludique (OMS)
3 : T: Pourcentage de patients avec malaria confirmée ayant reçu un traitement conforme aux normes nati
4 : T: Pourcentage de patients avec fièvre ayant été testés pour la malaria (OMS)
5 : T: Nombre de cas de la malaria confirmés
6 : T: Nombre de patients ayant bénéficié un test microscopique pour la malaria
7 : T: Nombre de patients ayant un test microscopique positif pour la malaria
8 : T: Nombre de patients ayant un test microscopique positif à Plasmodium falciparum.
9 : T: Nombre de patients ayant un test microscopique positif mixte à Plasmodium (OMS)
10 : T: Nombre de patients ayant un test microscopique positif à Plasmodium autres que falciparum
11 : T: Nombre de patients ayant bénéficié d'un TDR pour la malaria
12 : T: Nombre de patients ayant un TDR positif pour la malaria
13 : T: Nombre de cas suspects de la malaria (fièvre) dépistée (test demande)
14 : T: Nombre de cas de la malaria confirmée
15 : T: Nombre de cas confirmés pour la malaria sévère et mis sous traitement selon les normes nationales
16 : T: Nombre de patients avec Malaria hospitalisés

Malaria indicators can now be filtered as shown in the filter selector:



#### Surveillance of nutrition

There are now 16 indicators for the surveillance of nutrition.



1. Prevalence of moderate acute malnutrition (MAM)

Numerator: total number of children, 6-59 months old, with weight-for-height Z-score ≥ -3 SD and < -2 SD and no presence of nutritional edema.

Denominator: total number of children, 6-59 months old, seen during the period and evaluated for weight, height and nutritional edema.

2. Prevalence of severe acute malnutrition (SAM)

Numerator: total number of children, 6-59 months old, with weight-for-height Z-score < -3 SD and/or presence of nutritional edema.

Denominator: total number of children, 6-59 months old, seen during the period and evaluated for weight, height and nutritional edema.

3. Prevalence of global acute malnutrition (GAM)

Numerator: total number of children, 6-59 months old, with SAM or MAM.

Denominator: total number of children, 6-59 months old, seen during the period and evaluated for weight, height and nutritional edema.

#### 4. Prevalence of moderate wasting

Numerator: total number of children, 0-59 months old, with weight-for-height Z-score ≥ -3 SD and < -2 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for weight and height.

#### 5. Prevalence of severe wasting

Numerator: total number of children, 0-59 months old, with weight-for-height Z-score < -3 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for weight and height.

#### 6. Prevalence of moderate stunting

Numerator: total number of children, 0-59 months old, with height-for-age Z-score ≥ -3 SD and < -2 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for height.

#### 7. Prevalence of severe stunting

Numerator: total number of children, 0-59 months old, with height-for-age Z-score < -3 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for height.

#### 8. Prevalence of moderate underweight in infants

Numerator: total number of children, 0-59 months old, with weight-for-age Z-score ≥ -3 SD and < -2 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for weight.

#### 9. Prevalence of severe underweight in infants

Numerator: total number of children, 0-59 months old, with weight-for-age Z-score < -3 SD.

Denominator: total number of children, 0-59 months old, seen during the period and evaluated for weight.

#### 10. Prevalence of moderate underweight in children and adolescents

Numerator: total number of children and adolescents,  $\geq 5$  and  $\leq 19$  years old, with BMI-for-age Z-score  $\geq -3$  SD and  $\leq -2$  SD.

Denominator: total number of children and adolescents,  $\geq 5$  and < 19 years old, seen during the period and evaluated for weight and height.

#### 11. Prevalence of severe underweight in children and adolescents

Numerator: total number of children and adolescents,  $\geq 5$  and < 19 years old, with BMI-for-age Z-score < -3 SD.

Denominator: total number of children and adolescents,  $\geq 5$  and < 19 years old, seen during the period and evaluated for weight and height.

#### 12. Prevalence of mild underweight adults

Numerator: total number of adults, 19+ years old, with BMI  $\geq 17$  and < 18.5.

Denominator: total number of adults, 19+ years old, seen during the period and evaluated for weight and height.

#### 13. Prevalence of moderate underweight adults

Numerator: total number of adults, 19+ years old, with BMI  $\geq$  16 and  $\leq$  17.

Denominator: total number of adults, 19+ years old, seen during the period and evaluated for weight and height.

#### 14. Prevalence of severe underweight adults

Numerator: total number of adults, 19+ years old, with BMI < 16.

Denominator: total number of adults, 19+ years old, seen during the period and evaluated for weight and height.

#### 15. Prevalence of overweight adults

Numerator: total number of adults, 19+ years old, with BMI  $\geq$  25 and < 30.

Denominator: total number of adults, 19+ years old, seen during the period and evaluated for weight and height.

#### 16. Prevalence of obese adults

Numerator: total number of adults, 19+ years old, with BMI  $\geq$  30.

Denominator: total number of adults, 19+ years old, seen during the period and evaluated for weight and height.

## **Surveillance of tuberculosis**

There are now 28 new indicators for the surveillance of tuberculosis.

lapports filtres :							<b>②</b> Aide
1. Choisir une période 2. Afficher les détails (facultatif)	3	. Mise à jour du rapport					
Année Mois Semaine par : Pas de détails Réseau Département Comm	une Clinique						
Trier les détails : Nom Comte		Filtre					
oir : par année, de 2008 à 2013.				♣ Imprimer	♣ Anciens resultats	Nouveaux	cresultats 🕽
Indicateur	2008	2009	2010	2011	2012	20	013
<ol> <li>Pourcentage de symptomatiques respiratoires examinés parmi les SR identifiés</li> </ol>	26% 1874/7	290 24% 1889/7917	21% 1440/7006	43% 4826/11232	32% 3442/10705	31%	2874/9145
<ol> <li>Pourcentage de symptomatiques respiratoires positifs par rapport aux symptomatiques respiratoires examinés</li> </ol>	28% 1729/6	106 26% 1774/6695	23% 1355/5992	25% 1715/6930	22% 1685/7768	25%	1684/6846
3 : Adult (> 15) pourcentage de nouveaux cas TPM+ par rapport au nombre total de cas (based on radiography) de TB pulmonaire		0/0	0/0	0/0	0/0	59%	73/124
4 : Enfants (<= 15) pourcentage de nouveaux cas TPM+ par rapport au nombre total de cas (based on radiography) de TB pulmonaire		0/0	0/0	0/0	0/0	28%	11/40
5 : Adult (> 15) pourcentage de nouveaux cas TPM- par rapport au nombre total de nouveaux cas de TB pulmonaire		0/0	0/0	0/0	0/0	65%	104/160
6 : Enfants (<= 15) pourcentage de nouveaux cas TPM- par rapport au nombre total de nouveaux cas de TB pulmonaire		0/0	0/0	0/0	0/0	80%	43/5
7 : Adult (> 15) pourcentage de nouveaux cas TB extra pulmonaire au nombre total de nouveaux cas de TB pulmonaire		0/0	0/0	0/0	0/0	13%	21/15
8 : Enfants (<= 15) pourcentage de nouveaux cas TB extra pulmonaire au nombre total de nouveaux cas de TB pulmonaire		0/0	0/0	0/0	0/0	23%	12/5
9 : Taux d'évaluation au 2ème mois		0/0 0/0	0/0	0/0	0/0	13%	29/22
10 : Taux d'évaluation au 3ème mois		0/0 0/0	0/0	0/0	0/0	2%	4/22
11 : Taux de conversion des crachats au 2ème mois		0/0 0/0	0/0	0/0	0/0	12%	26/22
12 : Taux de conversion des crachats au 3ème mois		0/0 0/0	0/0	0/0	0/0	2%	4/22
13 : Taux de guérison		0/0 0/0	0/0	0/0	0/0	2%	2/9
14 : Taux de traitement terminé		0/0 0/0	0/0	0/0	0/0	2%	2/9
16 : Taux de succès (TPM+)		0/0 0/0	0/0	0/0	0/0	3%	7/220
18 : Taux d'ábandon		0/0 0/0	0/0	0/0	0/0	1%	1/99
19 : Taux de décès		0/0 0/0	0/0	0/0	0/0	1%	1/12
20 : Taux de transfert		0/0 0/0	0/0	0/0	0/0	1%	3/22
21 : Pourcentage de patients tuberculeux testés pour le VIH	100%	1/1 0/0	0/0	0/0	85% 165/195	80%	1385/172
22 : Pourcentage de co-infectés parmi les patients tuberculeux testés	100%	1/1 0/0	0/0	0/0	44% 72/165	45%	618/138
23 : Pourcentage de co-infectés sous traitement prohylactique au cotrimoxazole		0/0	0/0	0/0	8% 6/72	26%	162/61
24 : Pourcentage de co-infectés mis sous ARV	100%	1/1 0/0	0/0	0/0	47% 34/72	59%	364/61
25 : Taux d'incidence de tuberculose enregistré		0/0 0/0	0/0	0/0	0/0	1%	212/3822
26 : Taux d'incidence des TPM+ enregistré		0/0 0/0	0/0	0/0	0/0	0%	162/3822
28 : Taux de létalité par tuberculose		0/0 0/0	0/0	0/0	0/0	1%	1/12

### **Modifications to HEALTHQUAL indicators**

The following changes were made to the HEALTHQUAL indicators:

#### 1. Isoniazid Prophylaxis

#### Old Denominator:

Number of HIV+ patients having made at least one medical visit during the analysis period, excluding discontinued patients and pediatric patients with a negative PCR result.

#### Old Numerator:

Number of HIV+ patients who received INH prophylaxis during the analysis period.

#### New Denominator:

Number of HIV+ patients enrolled during the analysis period, excluding those with active TB, discontinued patients and pediatric patients with a negative PCR result.

#### New Numerator:

Number of HIV+ patients enrolled during the analysis period who also received INH prophylaxis during the period.

### 2. CD4 Monitoring

#### Old Numerator:

Number of HIV+ patients ever enrolled at the site more than six months prior to the period of analysis who have had 2 CD4 counts in last 8 months.

#### New Numerator:

Number of HIV+ patients ever enrolled at the site more than six months prior to the period of analysis who have had 2 CD4 counts in last 12 months.

### Primary care summary report

A patient summary report formatted for adult, pediatric, and ob-gyn primary care is now available from the patient cover page, similar to the HIV summary that was previously available.

#### Patients never tested for CD4

Patients under 5 years old are now excluded from this report.

### Eligible but not enrolled for ARVs report

A column was added to this report indicating the reason patient was not enrolled.

# **Administration items**

## Software required for fingerprinting and smart card

The most recent M2Sys software for fingerprinting and smart card should come from here:

https://www.filesanywhere.com/fs/v.aspx?v=8b6c6289596471759c9e Password: m2hybr1d



Note that different client installer must be used for 32-bit vs. 64-bit computers. Both are dated July 10, 2014. Also, note that the Server 7.0.5 (dated December 6, 2013) is required for writing the smart card (prints are written directly from the local fingerprint server to the smart card).

#### LDAP list URL now available to administrators

The URL ~isante/ldap/list.php can be used to see the full list of authorized users from the LDAP directory, along with their emails and telephone numbers:

# Liste des comptes

### Nouveau compte

Nom d'utilisateur	Nom complet	Adresse électronique	Compagnie Numéro de téléphone	Commentaires
<u>admin</u>	ad admin	admin@uw.edu	I-TECH	
<u>cirgadmin</u>	admin			
<u>crogosin</u>	Carli Rogosin	crogosin@uw.edu	I-TECH	
<u>demo</u>	demo demo	demo.com	itech	
dereil	Emily DeReil	dereil@uw.edu	I-TECH	
<u>jdiallo</u>	Joanna Diallo	jdiallo@uw.edu	I-TECH	
miked4	Mike Davisson	miked4@uw.edu	I-TECH	

Déconnexion cirgadmin