





# KRG – DHIS Health Monitoring System

# **USER MANUAL**

# Pilot project for the development of a system of health monitoring and surveillance activities in the Autonomous Region of Kurdistan

ver. 2016 February









# **User Manual for Medical Doctors and Health Care workers**

The **KRG Health Monitoring System** (referred also as **KRG Health System**) is a web-based application Powered by the DHIS 2 (https://www.dhis2.org/) platform and will be available in an Internet browser when you have Internet connection.

# 1. Login in the System

## 1.1. Opening KRG Health Monitoring System

To connect to the system, open a browser, we recommend Google Chrome (download installer here: http://www.google.com/chrome) and in the address field you type in the URL :

## https://krg-dhis.ipro-it.eu/

You will then see the login screen of KRG Health System.

← → C fi 🔒 ht	tps://krg-dhis.ipro-it.eu/dhis-web-commons/security/login.actir 🕈 🏡
	KRG Health Monitoring System
	dhis2
	Sign in
	Username
	Password
	Sign in

Fig. 1









## 1.2. Logging in and out of the application - Dashboard

Once you can see the blue login screen of the KRG Health System you must enter your user name and password to log in to the application. If the login is not successful you will be notified that the username or password is incorrect and asked to re-enter these credentials. Note that the username and the password are case-sensitive! Please control the position of your Caps Lock key before entering and type the strings with the correct case.

dhis2 KRG Health Monitoring System						Apps		9	Profile
Data Entry (update profile!) • Write feedback • \$	share II	nterpretation							
Profile Messages Interpretations Search for users, cl	narts, map	s, reports and reso	ources	1					Search
Add Manage Share < > KRG-users Dashboard									
Remove Get as image Share interpretation Explore Resize	Remov	e Explore Resize							+
KRG		BIRTHS EVEN	ITS BY	TYPE&	SEX (b)	y quarte	rs)		
Births Age Eirths Number of brothers alive 🔶 Trend 🔶 Trend		Organisation units			KRG				
27 30 27 - 25 25 24 - 22 23	Gender	Type of birth / Periods	Jan to Mar 2015	Apr to Jun 2015	Jul to Sep 2015	Oct to Dec 2015	Jan to Mar 2016		Total
21 -	Female	Regular	2			1	4	7	7
18	remare	Premature			1			1	1
15-			2		1	1	4	8	8
9	Male	Regular Premature	1	1	1	1	5	7	7
6- 4		Fiemature	1	1	1	1	5	2	9
3 - 2 2 2 3 13	-	Total	3	1	2	2		17	17
or the set of the set									
Remove Get as image Share interpretation Explore Resize									+
GIS Map Irac	qi Kurdista	n							
Viranşehir Mardin Cizre Kızıltepe Nusaybin Silopi Deylanpınar	پ چemdin پیوران Soran	Julian Mahaba	Maragl Maragl Id بوکان Bukar	heh	5		uneh (	Za	କ୍ ବ୍ ()

#### Fig. 2

Once you have successfully logged in you will see the System **Dashboard** where you can immediately monitor the latest data in your selected, reports, tables, maps etc.

When you have finished your session we recommend that you log out before closing

the browser. Use the log out button in the upper right corner (inside the **Profile** menu) and you will be returned to the login screen.









# 2. Navigating the application - Module/App Selection

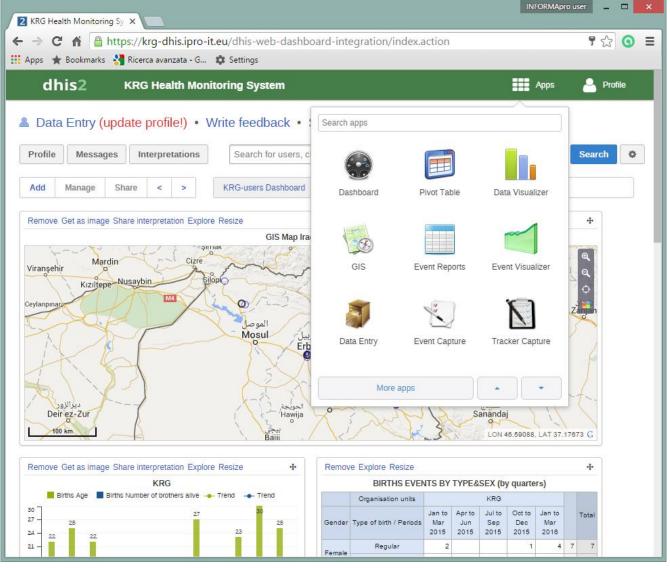
The KRG Health System has two kind of menu:

- the top menu, which houses areas for apps and the user profile, and

- the left side menu inside most modules to navigate between features inside each

module.

The DHIS2 symbol in the top left corner is a fast link to the user-defined start page, the home page. Often this is set to the dashboard module.



## Fig. 3

## 2.1. The top menu - access to the modules

KRG Health System consists of various apps (major components) which each have specific features, such as data entry, reporting, dashboard. You can access these from the top menu under Apps.

Under profile, details relating to your user account, general user settings and information about the system can be found.









To move to a new app you need to move the mouse pointer to one of the top menu items,

Apps or Profile, a sub-menu with additional items will then appear. Click on the item you would like to open.

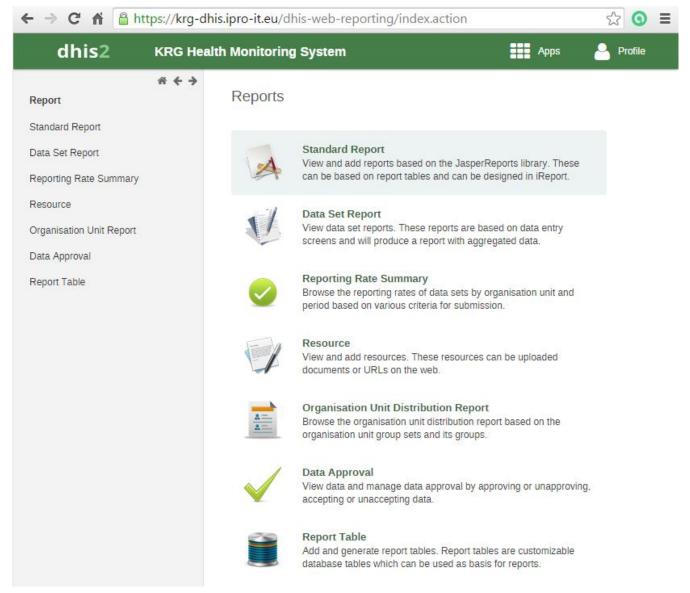


Fig. 4

## 2.2. Navigation inside modules

When you open most of the apps you will see the app main page which lists the major features in the middle of the screen with a short description. Simply click on the feature you would like to open.

When inside an app you will always see the left side menu with links to its features. Use this menu to jump between features. This is particular useful for navigation within the app.

The data entry, the Event capture and Dashboard modules do not have a menu system as they only contain one feature, everything is in one page, so there is no need for a menu there.







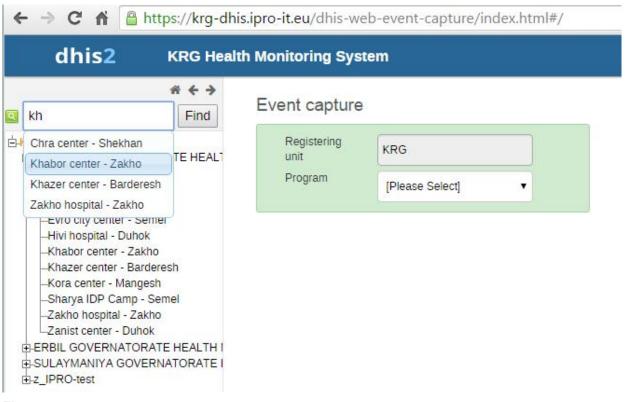


# 3. Event Capture App

## 3.1. Event Capture overview

The event capture app allows users to register events that occurred at a particular time and place. An event can happen at any given point in time. This stands in contrast to routine data, which can be captured for predefined, regular intervals. **Events** in the KRG Health System are linked to a program. Hence, the event capture app lets you select the **organisation unit** and **program** and specify a **date** when an event (also known as case or record) happened, before entering information for the event.

## 3.2. Capturing Events



## Fig. 5

To capture an event, the first step is to select an **organisation unit** from the left-side organisation unit tree.

The organization unit (referred also as **org unit**) is the medical centre or public health facility, where the event capture and all other data manipulation (entering, modifying, reporting and analysing data) are performed.

Locate the org unit you want to register data for in the tree menu to the left. Expand and close branches by clicking on the +/- symbols. A quick way to find an org unit is to use the search box just above the tree (the green symbol), but you need to write in the full name to get a match.

After selecting an org unit, the list of programs will display the programs which have been associated with the selected organisation unit and which have been given access to the current user.









← → C A A https://krg-dhi	s.ipro-it.eu/dhis-we	b-event-capture/	/index.html#/			☆ 🗿
dhis2 KRG Healt	h Monitoring Syst	em			Apps	Profile
* < >	Event capture					
KRG     DOHOUK GOVERNATORATE HEALT     ERBIL GOVERNATORATE HEALTH     Ashti Hospital     Hawler Teaching Hospital     Nanakaly Hospital for blood disease     Raparin Pediatric Teaching Hospita     Rizgary Teaching Hospital     Shaqlawa Hospital     Shaqlawa Materity and Pediatric Hosp	Registering unit Program	IPRO_test_center_0 Births IPlease Select1	Clinic	Register event	Print list	
	Registered events (To	Births			She	ow/hide columns
West Erbil Emergency Hospital	Incident date Q	Immunizations	10-12	¢Age Q	<ul> <li>Gestational age (weeks)</li> </ul>	Comment
E-z_IPRO-test	2016-02-08	Erbil	Male	26	38	0
UPRO_test_center_Hospital_KRG	2016-01-06	Erbil	Female	24	39	0
	2016-01-03	Zaxo	Male	25	35	0
	2016-01-01	Jabal Zark Bardarash	Male	23	38	0
	201 <mark>5-12-0</mark> 9	Erbil	Male	30	31	0
	2015-11-04	Sulaymaniyah	Female	23	38	0
	2015-09-19	Dohuk District	Female	24	37	0

#### Fig. 6

Events are displayed in a tabular fashion. As seen in the screenshot, each row corresponds to an event. The columns display information about the events, more specifically they display data for data elements which are part of the program.

All event related operations are accessible from the screen shown above. The operations currently available are:

1. Capturing data: this available by clicking the "Register event" button.

2. **Showing/hiding columns**: this is to allow users decide which columns to show/hide in the table of events. This feature is especially important when we have a long list of data elements assigned to a program stage.

3. **Editing**: the rows in the table are clickable, clicking them shows three menus - Edit, Edit in grid and Remove. The edit function takes you to a new page where information for the selected event can be updated. The edit in grid function allows you to edit the selected event within the table but only those columns (data elements) visible in the grid. If more columns are required it is possible to add using the "Show/Hide columns" button to specify which columns should be displayed in the list.

4. **Sorting**: this can be done by clicking the sorting icon of each column header. A red sorting icon implies the current sorting column. However, the sorting functionality works only within the page displayed. Currently, it is not possible to do sorting from server side.









5. **Filtering**: this is done by clicking the small search icon shown to the right of each column header. Clicking them provides an input field to type a filtering criteria. The system starts applying the filter the moment a user starts to type. During filtering it is possible to define start and end dates for date type data elements and lower and upper limits for number types. Server side filtering is not-support at the moment.

6. **Paging**: The list of events can be paged by using the paging section at the bottom of the list. Paging allows you to quickly move between pages of events and to change the page size, i.e. the number of events per page.

7. **Printing**: The "<u>Print list</u>" button allows to print the list of events. This button also changes its label accordingly - for example "Print details" and "Print form" - and does the printing functionality.

	-				
Event capture	e				
Registering un	it				
IPRO_test_o	enter_Clinic				
Program					
Births	•				
Registered events (	Total: 8)				
Incident date	Birthplace	Gender	24 27	Gestational age (weeks)	Comment
2015- <mark>0</mark> 9-19	Dohuk District	Female	24	37	00
2016-01-06	Erbil	Female	24	39	00
	Zaxo	Male	25	35	00
2016-01-03				-	00
2016-01-03 2015-01-24	University of Dohuk	Female	26	38	

#### Fig. 7

The event capture app works offline, in the sense that if Internet connectivity drops during your working session, you can continue to capture events which will be stored locally in your web browser (client). When connectivity has returned the system will ask to upload locally stored data, and sends it to the server where it is stored. Note that if the Web browser is closed while in offline-mode, it is not possible to reopen a new browser window and continue the working session; however the data will still be saved locally and can be uploaded to the server the next time the machine is online and the user has logged into the server.









🗲 🤿 C 🖍 🖀 https://krg-dhis.ipro-it.eu/dhis-web-event-capture/index.html#/

dhis2	KRG Heal	th Monitoring Syst	tem				===	Apps
ব	* + >	Event capture						
DOHOUK GOVERNATOR		Registering unit	IPRO_test_center	_Clinic				
—Ashti Hospital —Hawler Teaching Hospi —Nanakaly Hospital for b		Program	Births					
-Raparin Pediatric Teac -Rizgary Teaching Hosp	hing Hospita	Section	Show all	•	Regi	ster event	Print form	
-Shaqlawa Hospital Soran Maternity and Pe West Erbil Emergency	Hospital	New event						
E-z_IPRO-test IPRO_test_center_Cli	nic	Date of birth*		yyyy-MM-dd				
		Mother info						
		Data element		Value				
		Age						
		Residence		Select or search fr	rom the	Ŧ		
		Previous pregnanci	ies					
		Previous abortions						
		Newborn info	0					
		Data element		Value				
		Birthplace		Select or search fr	rom the	•		
		Gender		Select or search fr	rom the	Ŧ		

#### Fig. 8

If the selected program's program stage is configured to capture GPS coordinate, the app provides two ways of capturing coordinates. The first is two simple text boxes so that a user can fill in proper latitude and longitude values. The second option is using google map, where it is possible to point and click for coordinates. The google map option also displays polygons and points that are defined for organisation units.







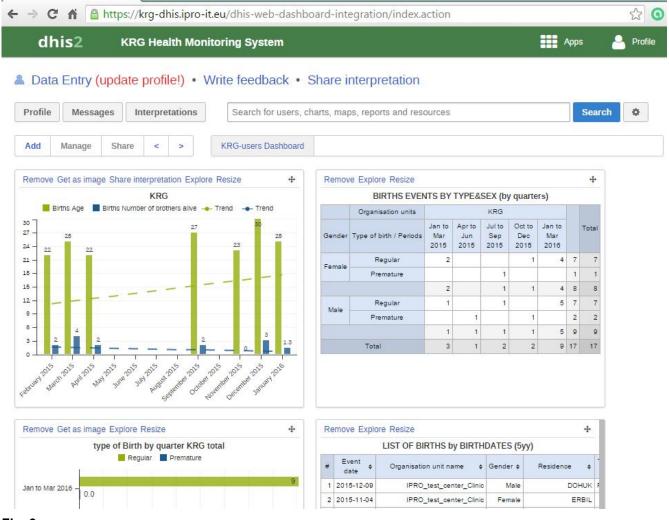


# 4. Dashboard and Reporting

## 4.1. Dashboard

Dashboards are intended to provide quick access to different analytical objects (maps, charts, reports, tables, etc) to an individual user. Dashboards can also be shared with user groups. For instance, a user or administrator could create a dashboard called "Malaria" which might contain all relevant information on malaria. This dashboard could then be shared with the user group called "Malaria control", which might consist of all users of the malaria control programme. All users within this group would then be able to view the same dashboard.

The Dashboard in the figure is called "KRG-users Dashboard", shared with all users of this group.



#### Fig. 9

The dashboard can contain any number of objects (charts, maps, reports, tables, resources,etc). These can be freely arranged on the dashboard as you wish. Dashboard items can be located and added by searching for favourites, resources, users or messages in the available search box and clicking on the "Add" button.









## 4.2. Using Event Reports

The event reports app enables analysis of events in two fashions.

- · Pivot table-style analysis with aggregated values of events
- · Lists of events based on queries / filters

We will explain the functioning of the **Event Report** App. All reporting Apps – like **Pivot Table** and **Data Visualizer** have similar behavior.

By selecting "**Aggregated values**" button from the top-left menu you can use the event reports app to create pivot tables with aggregated numbers of events. By selecting the "**Events**" button you can see all single events filtered by the specified parameters.

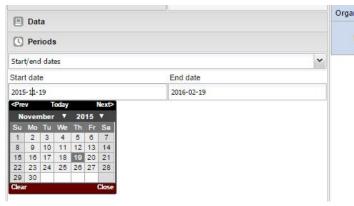
An event report is always based on a program. You can do analysis based on a range of dimensions. Each dimension can have a corresponding filter.

Dimensions can be selected from the left-side menu and includes the following:

• **Data elements**: Start by selecting the program and program stage for the event report. The data elements associated with the selected program will be listed under available items.

Each data element acts as a dimension, and can be selected by double-clicking on it. After selecting a data element, it will be visible under "selected data items". Here you can specify a filter for each data element, with operators such as "greater than", "in" or "equal" ogether with a filter value.

• **Periods**: For the period dimension you have three options: relative periods, fixed periods and start/end dates. Relative periods can e.g. be "last 12 months", and has the advantage that it keeps the data in the report up to date as time goes. Fixed periods can e.g. be "January 2015". You can swith to start/end dates by selecting from the drop-down menu under the periods tab, which lets you specify flexible dates for the time span in the report.



## Fig. 10

• Organisation units: The organisation unit dimension lets you select any org unit from the hierarchy. You can use the org unit mode selector to select org units explicitly, by org unit hierarchy levels and by org unit groups.

The example below shows the a table with aggregate and individual event data for the births events by type and sex aggregated by qyarters.









## BIRTHS EVENTS BY TYPE&SEX (by quarters)

## You can visualize the Aggregated event report, by clicking on the "Aggregates values" button.

Aggregated values Show aggregated event report	Show in	Events dividual event overview	<<< l	Jpdate Layout → Op	tions +	Fav	orites +	Down	iload +	Sha	are 🕶
Data				Organisation units			KRG				
Program	Stage		Gender	Type of birth / Periods	Jan to Mar	Apr to Jun	Jul to Sep	Oct to Dec	Jan to Mar		Tota
Births 👻	Births	*			2015	2015	2015	2015	2016		
Available Q		* \$	Female	Regular	2			1	4	7	7
Birthplace			remaie	Premature			1			1	1
Delivery facility type					2		1	1	4	8	8
Gestational age (weeks)			are a	Regular	1		1		5	7	7
Number of brothers alive			Male	Premature		1		1		2	2
Other birthplace Other residence					1	1	1	1	5	9	9
Previous abortions				Total	3	1	2	2	9	17	17
Previous pregnancies					0		1.1.1.1	1.	1.1.1.1	1 52	
Selected data items		\$									
Gender		Duplicate Remove	-								
One of Search V No selected items											
Type of birth		Duplicate Remove									
One of Y Search Y No selected items											
Age		Duplicate Remove									
- ~	* *	No range set 💌									
C Periods			-								
Organisation units											

#### Fig. 11

Alternatively you can visualize the individual events – by clicking on the "Events" button on the top of the Event Report visualizer.

After making the selections in all dimentions, you have to select the "**Update**" link to made the changes efective.

Finaly, you have to make this Report available for future use anche visualization on the Dashboard, by Adding it on the "Favorits" giving it some meaningful name – for example BIRTHS EVENTS BY TYPE&SEX (by quarters).

This name can be used also to add his icon to the Dashboard.

By selecting "Explore" on the report icon, you will jump to the reporting App.









Aggregated values Show aggregated event re	port	Show inc	Events dividual event overview	<<	< Updat	e Layout - Options - Favo	rites + Do	wnload + S	Share •
🗉 Data				#	Event ¢	Organisation unit name \$	Gender ¢	Type of birth \$	Age
Program		Stage		1	2015-	IPRO_test_center_Clinic	Male	Premature	30
Births	*	Births	*	8	2015-		der an	8011 85	in the second se
Available Q			* *	2	11-04	IPRO_test_center_Clinic	Female	Regular	23
Birthplace Delivery facility type				3	2015- 09-19	IPRO_test_center_Clinic	Female	Premature	24
Gestational age (weeks) Number of brothers alive				4	2015- 01-24	IPRO_test_center_Clinic	Female	Regular	26
Other birthplace				5	2015- 09-09	IPRO_test_center_Hospital_KRG	Male	Regular	30
Other residence Previous abortions				6	2015- 03-12	IPRO_test_center_Hospital_KRG	Female	Regular	25
Previous pregnancies Selected data items			\$	7	2015- 04-20	IPRO_test_center_Hospital_KRG	Male	Premature	22
Gender			Duplicate Remove	8	2015- 02-06	IPRO_test_center_Hospital_KRG	Male	Regular	22
One of V Search V No s Type of birth	elected items	S	Duplicate Remove	9	2016- 01-06	IPRO_test_center_Clinic	Female	Regular	24
	elected items	á.		10	2016-01-03	IPRO_test_center_Clinic	Male	Regular	25
Age 👻		-	Duplicate Remove No range set	11	2016- 01-01	IPRO_test_center_Clinic	Male	Regular	23
				12	2016- 02-08	IPRO_test_center_Clinic	Male	Regular	26
				13	2016- 02-10	IPRO_test_center_Hospital_KRG	Female	Regular	20
				14	2016- 02-02	IPRO_test_center_Hospital_KRG	Male	Regular	34
C Periods				15	2016- 01-11	IPRO_test_center_Hospital_KRG	Male	Regular	28
Organisation units				16	2016-	IPRO test center Hospital KRG	Female	Regular	23
				<<	< Pag	e 1 of 1 > >>		1-17 of	17 (7

Fig. 12

# 5. Data Entry for aggregate data

# 5.1. Data Entry App

An alternative way to enter directly only the aggregate data is using the Data Entry App/module. When there is no information about the single events, we can insert directly the aggregate data.

To open the data entry window click on the App tab displayed in the main menu. A drop down menu will appear listing the Apps provided by the system. Click on the Data Entry App.



The data entry module is where aggregate data is manually registered. Data is registered for an organisation unit, a period, and a set of data elements (data set) at a time. A data set often corresponds to a paper-based data collection tool.









# Selecting the data entry form

To start entering data the first step is to open the correct form. Follow these steps:

Locate the org unit you want to register data for in the tree menu to the left. Expand and close branches by clicking on the +/- symbols. A quick way to find an org unit is to use the search box just above the tree (the green symbol), but you need to write in the full name to get a match.

Kha Find Chra center - Shekhan Khabar center - Zekha	Data Entry 😯	
EHEALT		
Khahar contar Zakha E TEALI		
Khabor center - Zakho	Organisation Unit	KRG
Khazer center - Barderesh	Data Set	[ Select data set
-Chra center - Shekhan	Period	
Evro city center - Semel Hivi hospital - Duhok		
-Khabor center - Zakho		
-Khazer center - Barderesh		
-Kora center - Mangesh		
-Sharya IDP Camp - Semel		
–Zakho hospital - Zakho –Zanist center - Duhok		

## Fig. 13

Select a data set from the dropdown list of data sets available to your selected org unit.

Select a period to register data for. The available periods are controlled by the dataset's period type (reporting frequency). You can jump a year back or forward by using the arrows next to the period.

Now you should see the data entry form.









1	* + >	1.000 0.000			¥ 10	RO test center Clinic -		
Kha	Find	Data Entry 😮			· IP	RO_lest_center_clinic		
KRG DOHOUK GOVERNATOR Azadi center - Akre Botan center - Amedi Chra center - Shekhan Evro city center - Semel Hivi hospital - Duhok		Data Set	PRO_test_center_Clinic Births December 2015	•	Prev year	▼ Next year		
-Khabor center - Zakho -Khazer center - Barderesh -Kora center - Mangesh -Sharya IDP Camp - Semel -Zakho hospital - Zakho -Zanist center - Duhok			Type of abortion       Filter in section     Natural     Voluntary					
ERBIL GOVERNATORATE     SULAYMANIYA GOVERN		Number of abortions	Naturai 4					
-IPRO_test_center_Clin	Jz_IPRO-test IPRO_test_center_Clinic IPRO_test_center_Hospital_KRG		Geno	der and type	e of delive	ery		
		Filter in section	N	Nale		Fen		
			Natural	Cesare	an	Natural		
		Number of births	50	5		46		
				and here				

Fig. 14

# **Entering data**

Simply start entering data by clicking inside the first field and type in the value. Move to the next field using the Tab button. Shift+Tab will take you back one step. The values are saved immediately and do not require any save/finished button click. A green field indicates that the value has been saved in the system (on the server). On a slow connection it might take some time before the values are saved.

Input validation: If you type in an invalid value, e.g. a character in a field that only accepts numeric values you will get a pop-up that explains the problem and the field will be coloured yellow (not saved) until you have corrected the value. If you have defined a min/max range for the field (data element+organisation unit combination) a pop-up message will notify you when the value is out of range, and the value will remain unsaved until you have changed the value (or updated the range and then reentered the value).

Disabled fields: If a field is disabled (grey) it means that the field should not be filled. The cursor will automatically jump to the next open field.

Data history: By double-clicking on any input field in the form a data history window opens showing the last 12 values registered for the current field (organisation unit+data element+categoryoptioncombo) in a bar chart. This window also shows the min and max range and allows for adjusting the range for the specific organisation unit and data element combination.











Fig. 15

**Follow Up**: In the data history window there is also a feature to tag or star a value. E.g. a suspicious value that needs further investigation can be kept in the system, but marked for Follow-Up. In the **Data Quality module** you can run a Follow-Up analysis and view all values marked for Follow-Up, and then later edit the values if proved incorrect.

**Audit trail**: The audit trail allows you to view other data values which have been entered prior to the current value. As an example, the following data element was changed from its original value to 120. The audit trail shows when the data value was altered along with which user made the changes.

Editing and deleting data: If you wish to enter data which has already been entered, simply replace the data entry value with the update values.

If you want to delete a data value completely, you should select the value of interest, and press "Delete" on your keyboard. If you enter a zero and the data element has been configured to not store zeros, the previous data value (i.e. the one you wish to modify) will not be overwritten with the new value.









Therefore, it is better practice to delete the data value completely (waiting for the cell to turn green) and then to enter the new value.

Validating data in the form: When all the available values for the form has been filled in you can run a validation check on the data in the form. Click on the "Run Validation" button in the top right corner. All validation rules which involves data elements in the current form (dataset) will be run against the new data. Upon completion you will be presented with a list of violations or a simply a message that says "The data entry screen successfully passed validation". See the Data Quality chapter for information on how to define such validation rules.

Validation			(
Validation Result 🛕			
The data entry screen has the following validation errors, please correct			
Validation rule	Left side	Operator	Right side
Slept under LLIN at measles (fixed < 1y) cannot be higher than measles doses given (fixed < 1y)	7.0	<=	4.0

#### Fig. 16

When you have corrected any erroneous values and are done with the form the recommended practice is to click on the Complete button below the form to register the form as complete. This information is used when generating completeness reports for district, county, province or the national level.

Filter in section	Caused by fiv	<i>v</i> e major killers	Other		
	Male	Female	Male	Female	
lumber of deaths	40	45	50	56	

#### Fig. 17

**Offline data entry**: The data entry module will function even if during data entry the Internet connectivity is not stable. In order to utilize this functionality, you must login to the server while the Internet is functional, but if during data entry, the Internet link between your computer and the server becomes unstable, data can still be entered into the data entry form, saved to your local computer, and then pushed to the server once the Internet connectivity has been restored. Data can be entered and stored locally while being offline and uploaded to the central server when on-line. This means that the on-line deployment strategy will be more viable in areas with unstable Internet connectivity. The total bandwidth usage is greatly reduced since forms no longer are retrieved from the server for each rendering.

Once the data has successfully synchronized with the server, you will receive a confirmation message that the data has been successfully uploaded to the server.









# 6. Using reporting functionality

The reporting module in DHIS 2 provides a range of reporting alternatives, and this section will explain how to use them to view and analyse data.

**Standard reports**: Standard reports are built on pivot tables, but are more advanced in its design allowing for more cosmetics and styles. These reports can also combine multiple tables and charts in the same report and be made available as one-click reports that are very easy to use. These reports can be downloaded as PDF files which makes them ideal for printing as well as sharing offline.

**Dataset reports**: Dataset reports are simply a printer friendly way to look at the data entry forms with either raw or aggregated data (over time or place). The design used in data entry will be used also in the data set reports. This will work only for data sets that has a custom data entry form set up.

**Dashboard**: The fastest way to view your data. The dashboard can display up to four updated charts as well as shortcuts to your favourite reports, report tables, and map views. Each user can configure a personal dashboard.

**Data Visualizer**: Do flexible visualizations of your data as charts and data tables. Any number of indicators and data elements can be included. Several chart types are available, such as column, stacked column, line, area and pie charts. The charts can be saved in order to be easily retrieved later and can also be put on your personal dashboard. Charts can be downloaded as image and PDF files to your local computer.

**Orgunit distribution reports**: These reports are generated off the orgunit group set information and can show what types (and how many of each type) of health facilities that are located in a given area (any level in the hierarchy). These reports are automatically generated and display the information in both tables and charts, and downloads in PDF, excel, and CSV are available.

**Reporting rate summary**: These reports provide a nice overview of how many facilities that have submitted their data for a given dataset and period. Here you can get both the counts and the percentages showing the reporting rate for all or single data sets.

Fig. 18

**Web-based pivot tables**: The built in pivot table tool is a web-based tool to display indicator data by orgunit and period in a typical pivot table view and allows for pivoting manipulations of the tables. It allows for large amounts of data to be downloaded offline for analysis as well.

**GIS**: Present and analyse your data using thematic maps. You can view both data elements and indicators and given that you have coordinates for all your orgunits you can drill down the hierarchy and view maps for all levels from country polygons to facility points. See the separate chapter on GIS for more details. All the map information is built into DHIS 2 and all you need to do is to register coordinates for your organisation units and the maps will be available.









# 6.1. Reporting App in the KRG Health System

Part of the Reporting App are:

Standard Report

Data Set Report

Reporting Rate Summary

Organisation unit distribution report

Report Table

#### On the screenshot below you can see un example of the Reporting Rate Summary.

• -> C 🖬 🔒 ht	tps://krg-dhi	s.ipro-it.eu/dhis-web-repor	ting/displayViewDa	taCompletene	ssForm.action		☆ 🧿
dhis2	KRG Healt	th Monitoring System				Арр	s 晵 Profile
dhis2 eport tandard Report ata Set Report eporting Rate Summary esource rganisation Unit Report ata Approval eport Table	KRG Heald	Organisation unit ■ KRG ■ DOHOUK GOVERNA ■ ERBIL GOVERNATO	TORATE HEALTH MANA RATE HEALTH MANAGE ERNATORATE HEALTH r_Clinic _Hospital_KRG	G Based o R Births Monthly November 2 Get m Download	eport Sho d as PDF Di d as CSV	et registrations elements	•
				Expected		Deporto Op Timo	
		Name	Actual Reports	Reports	Percent	Reports On Time	Percent On Time

Fig. 19









# Contents

User Manual for Medical Doctors and Health Care workers		1
1. Login in the System		2
1.1.	Opening KRG Health Monitoring System	2
1.2.	Logging in and out of the application - Dashboard	3
2. Navigating the application - Module/App Selection		4
2.1.	The top menu - access to the modules	4
2.2.	Navigation inside modules	5
3. Ev	ent Capture App	6
3.1.	Event Capture overview	6
3.2.	Capturing Events	6
4. Dashboard and Reporting		10
4.1.	Dashboard	10
4.2.	Using Event Reports	11
5. Data Entry for aggregate data		13
5.1.	Data Entry App	13
6. Us	sing reporting functionality	18
6.1.	Reporting App in the KRG Health System	19
Standard Report		19
Data Set Report		19
Reporting Rate Summary		19
Organisation unit distribution report		19
Repo	ort Table	19

