

Guide to Extensively Drug-Resistant Organism (XDRO) Registry

Automated Alerts

DPH.XDROregistry@illinois.gov

www.xdro.org

Slides created by IDPH and the Chicago CDC Prevention Epicenter

Revised March 2022



Orientation Outline

1. Overview of the XDRO Registry
2. XDRO Registry Statistics
3. How Auto Alerts Work
4. How to Sign Up for Auto Alerts
5. Full vs. Partial Matching
6. Auto Alert Tracking Tool
7. Pilot Alert Outcomes
8. CRE Definition

XDRO registry overview

1. Mandatory CRE reporting

All Illinois Facilities

2. *C. auris*, CP-CRPA, CRAB

IDPH

**XDRO
registry**

ADT Feed/
Manual query

XDRO
status

Facility A

3. Information exchange

XDRO registry statistics, 11/2013 – 10/2017*

Reporting

- Reports submitted: 7269
- Unique patients: 4517 (~90/month)
- Reporting facilities: 194

Querying

- Queries submitted: 14774 (~300/mo.)
- Querying facilities: 176

*Includes CRE, *Candida auris*,
Carbapenemase-producing *P. aeruginosa*

Automated Queries and Alerts

Hospital A

Patient admission list
(inpatient only)

1. **Smith, John 1/5/67**
2. Doe, Jane 1/1/89
3. Patient, Test 1/2/77

Query

XDRO registry

1. Duck, Daffy 3/5/71
2. Fudd, Elmer 11/3/50
3. **Smith, John 1/5/67**

Hospital A

IP logs into
registry to
view alert

Email alert
(Optional: text/
pager alert)

How to sign up for automated alerts from the XDRO registry

1. Log into the XDRO registry at: <http://portalhome.dph.illinois.gov/>

**IDPH** web portal
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

Illinois Department of Public Health
Health Alert Network
Web Portal

Welcome to the IDPH Web Portal

From here, you can:

- Find all your public health related information at one secure site.
- Join online communities to share files, discussions, calendars and more.
- Access Web-based applications.

Requirements: To access the IDPH Web Portal, users must be running Internet Explorer 9.0 or higher. Some portal applications may not function properly with other browsers such as Mozilla Firefox.

Current Users: click here to access the portal: [Login](#)

Forgot password? Reset it at <https://imreset.illinois.gov>
(you must enter username as **idph\username**)

Newly Registered Portal Users: password resets will not be conducted over the telephone. It is the responsibility of all newly registered IDPH Web Portal users to sign up for the self-service solution by visiting <https://imreg.illinois.gov>

I need to...

[Register for a Portal Account](#)

Contact Customer Service Center

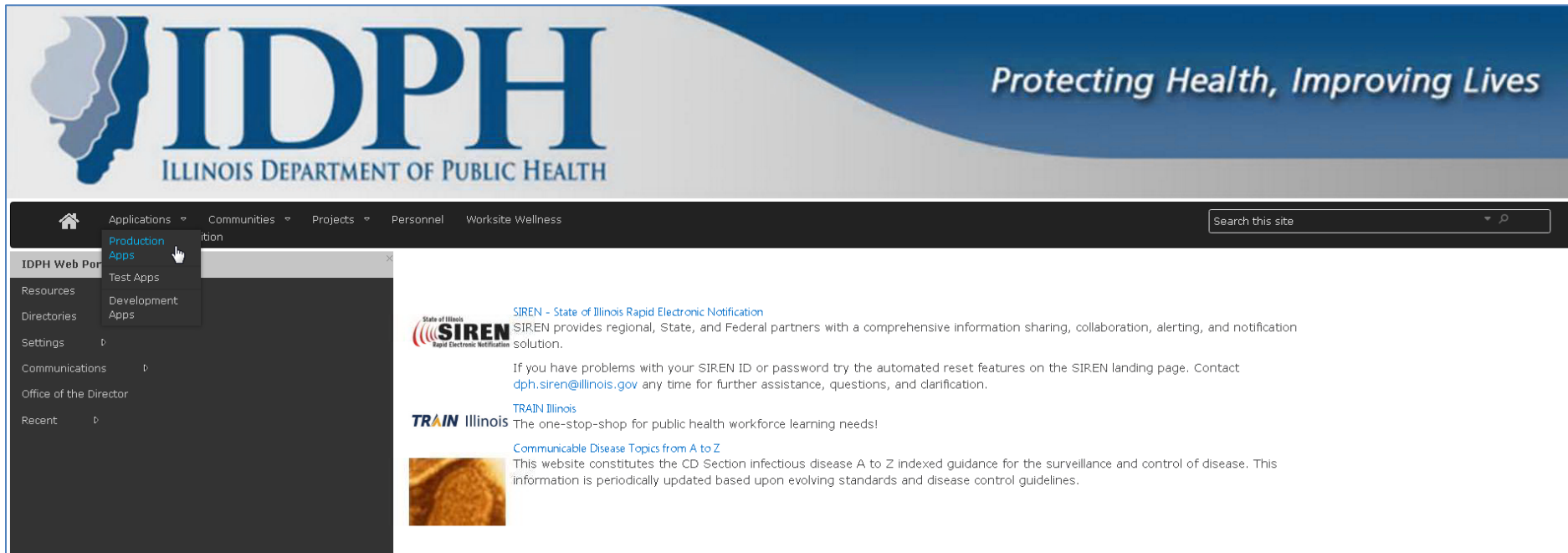
- Springfield: 217-524-4-DoIT (217-524-3648)
- Chicago: 312-814-4-DoIT (312-814-3648)

For assistance with IDPH Portal access and web-based application support, contact the Customer Service Center at the appropriate Springfield or Chicago number listed above and respond to the prompts accordingly. Option 1, then option 1 for password assistance or Option 3 to reach support personnel for the Department of Public Health.

Please indicate to the CSC staff that you are an IDPH Health Alert Network (portal) user when placing the call to ensure you are routed to the correct support staff to resolve the problem. Include your name, phone number, and specific application name, detail of the issue and error messages, if any, in your description of the problem to ensure efficient resolution.

PH
ENT OF PUBLIC HEALTH

2. Select “Production Apps”



The screenshot displays the IDPH (Illinois Department of Public Health) website. The header features the IDPH logo and the tagline "Protecting Health, Improving Lives". The navigation bar includes links for Applications, Communities, Projects, Personnel, and Worksite Wellness. A search bar is located on the right. The left sidebar shows a list of menu items: IDPH Web Port, Resources, Directories, Settings, Communications, Office of the Director, and Recent. The "Applications" menu is expanded, showing "Production Apps" (highlighted), "Test Apps", and "Development Apps". The main content area displays three featured links: "SIREN - State of Illinois Rapid Electronic Notification", "TRAIN Illinois", and "Communicable Disease Topics from A to Z".

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

Protecting Health, Improving Lives

Applications Communities Projects Personnel Worksite Wellness

Search this site

IDPH Web Port

- Resources
- Directories
- Settings
- Communications
- Office of the Director
- Recent

Production Apps

- Test Apps
- Development Apps

SIREN - State of Illinois Rapid Electronic Notification
SIREN provides regional, State, and Federal partners with a comprehensive information sharing, collaboration, alerting, and notification solution.

If you have problems with your SIREN ID or password try the automated reset features on the SIREN landing page. Contact dph.siren@illinois.gov any time for further assistance, questions, and clarification.

TRAIN Illinois
The one-stop-shop for public health workforce learning needs!

Communicable Disease Topics from A to Z
This website constitutes the CD Section infectious disease A to Z indexed guidance for the surveillance and control of disease. This information is periodically updated based upon evolving standards and disease control guidelines.

3. Select “XDR0 registry”

The screenshot displays the IDPH Web Portal interface. At the top, the IDPH logo and tagline "Protecting Health, Improving Lives" are visible. Below the header, a navigation bar includes links for Applications, Communities, Projects, Personnel, and Worksite Wellness, along with a search box. A left sidebar lists various portal sections like Resources, Directories, Settings, Communications, Office of the Director, and Recent. The main content area features an "Application Announcement" section with text about scheduled weekly maintenance windows and a notice that "I-NEDDS is back up". Below this is a "Production Applications" section listing several applications: Business Objects 3.1, Business Objects 3.1 - Internal Only, Essence, HiTrack, I-NEDSS, ORS, REDCap, and XDR0 registry (extensively drug resistant organism). The XDR0 registry application is highlighted with a red rectangular box.

IDPH Web Portal

Resources ▾
Directories ▾
Settings ▾
Communications ▾
Office of the Director
Recent ▾

Application Announcement

DPH Portal users: Every Sunday between 4:30 a.m. till 10:00 a.m., is the **Scheduled Weekly Maintenance Window** for DPH Applications, Servers and Configuration Management Changes. Most modifications implemented during this period will not require more than 5-15 minutes of down time, if any. The weekly maintenance may or may not affect the application you are accessing. If longer outages are expected for a specific system, an additional message will be posted under this message in **RED, identifying the Application and more specific information**. If during this time frame, you receive an error message or lose communications, please wait 5 minutes and try it again! If your issue continues, please open a trouble ticket like you normally would do.

I-NEDDS is back up, please pardon the inconvenience. Thank you


Production Applications

- Business Objects 3.1
- Business Objects 3.1 - Internal Only
- Essence
- HiTrack
- I-NEDSS
- ORS
- REDCap
- XDR0 registry (extensively drug resistant organism)**

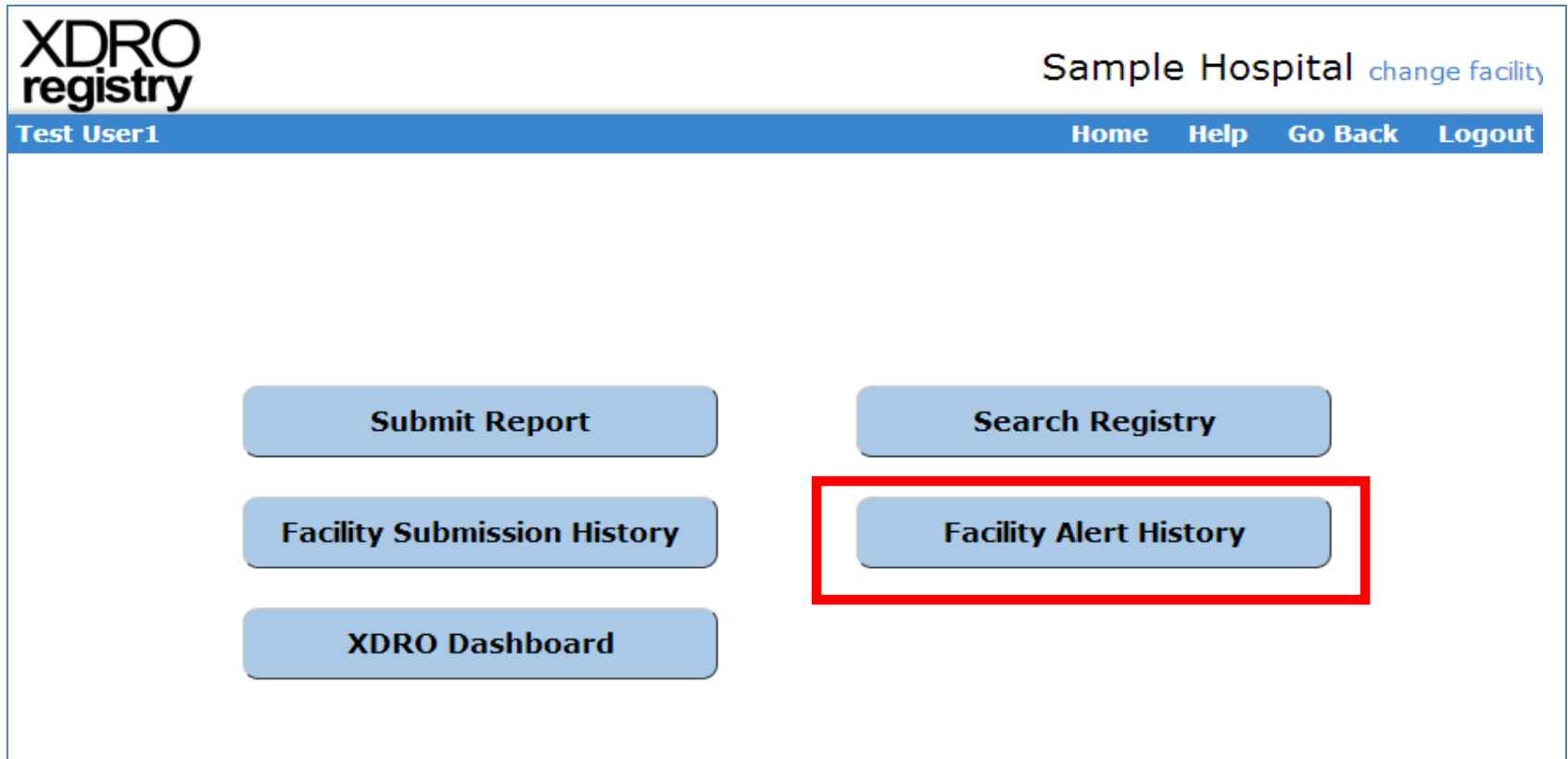
4. Click on the “X” to enter the XDRO registry

Welcome to the Illinois Extensively Drug-Resistant Organisms (XDRO) Registry

Use of the registry is restricted to authorized users. Access to the system is limited to those expressly authorized by a current written agreement with the XDRO registry security management. Any misuse of the system for anything other than its intended use and in accordance with the IDPH Web Portal User Agreement will be prosecuted to the fullest extent of applicable Illinois and/or federal laws.

Click on  to enter the XDRO registry.

5. Once in the XDRO registry, click on “Facility Alert History”



The screenshot displays the XDRO registry interface. At the top left is the 'XDRO registry' logo. At the top right, it shows 'Sample Hospital' with a 'change facility' link. Below this is a blue navigation bar containing 'Test User1', 'Home', 'Help', 'Go Back', and 'Logout'. The main content area features six blue buttons arranged in two columns. The buttons in the left column are 'Submit Report', 'Facility Submission History', and 'XDRO Dashboard'. The buttons in the right column are 'Search Registry' and 'Facility Alert History'. The 'Facility Alert History' button is highlighted with a red rectangular border.

XDRO registry

Sample Hospital [change facility](#)

Test User1 Home Help Go Back Logout

Submit Report

Search Registry

Facility Submission History

Facility Alert History

XDRO Dashboard

6. At the top of the page, click on “Please click here to confirm your alert contact information and facility”

Sample Hospital Alert

[Please click here to confirm your alert contact information and facility](#)

First name

Last name

Date of birth

 / /

Search

Alerts Tracking

Acknowledge	AID	Name	Date of Birth	Organism	Matching	▼Alert Date
By A.T. 06/01/2016 09:23	323	Submission, Test	01/02/1934	Klebsiella pneumoniae	Full Match	05/23/2016
By R.L. 04/09/2015 15:47	3	E, Ds	11/11/1982	Enterobacter aerogenes	Partial Match	03/21/2014
Acknowledge	2	Bug, Super	01/01/1914	Klebsiella pneumoniae	Full Match	03/20/2014

Disclaimer: A match on name and date of birth only may not be 100% accurate. We recommend that you verify XDRO status with the patient or by contacting the facility that entered the result.

Note: Full match: There was a complete match on first name, last name, and date of birth.

Partial match: There was a match on last name and date of birth; the first name was matched only on the first initial.

As of January 2017, the Illinois Department of Public Health is entering Candida auris cases into the XDRO registry; such patients can be identified through the above search query. Patients with C. auris should be placed on standard and contact precautions and, when possible, in single rooms. More information is available on CDC's [Questions and Answers](#) and [Interim Recommendations](#) pages.

7. Review email and facility name and make changes if necessary.
Optional: Check text messages or pager and fill in additional information.
Click “Confirm”.

Alert Setting

Registry alerts will be sent to the email address below. Please change the address if it is not correct.

Alert Email:

I also want to be notified by:

☒ **Text messages.** Text messages will be sent real time from 8 AM to 8 PM. Alerts after 8 PM will be sent at 8 AM the following morning.

Cell number: () - **Provider**

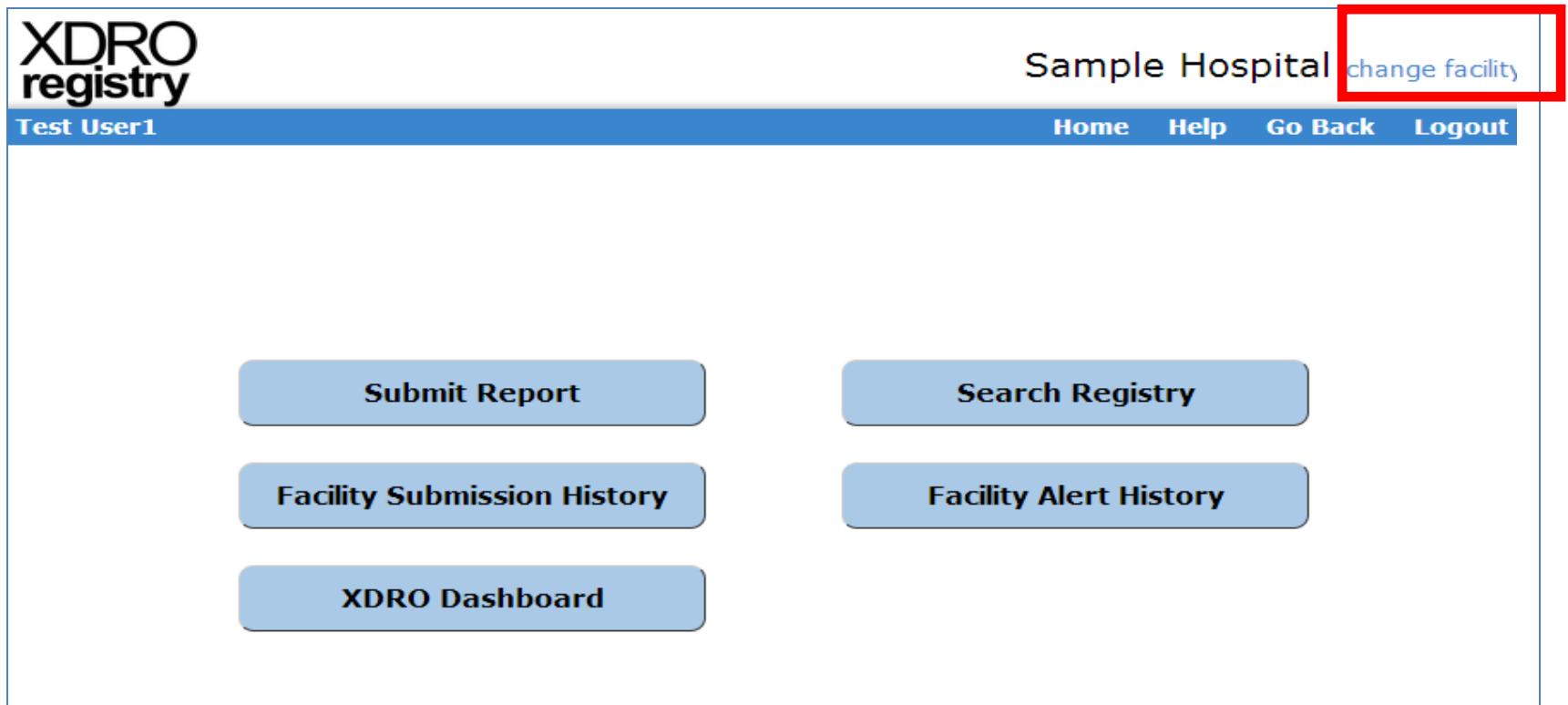
☒ **Pager.** Pager alert will be sent real time from 8 AM to 8 PM. Alerts after 8 PM will be sent at 8 AM the following morning.

Pager number:

Please confirm the facility for which you work. If your facility has changed, you may enter the new name in the box below. If you report for more than one facility, you will have the option to confirm your other facility's name when you click "change facility" in the upper right corner.

Facility name:

8. (optional) To sign up for automated alerts for a different facility, click on “change facility” and repeat the process on slides 10-12



The screenshot displays the XDRO registry web application. The header includes the 'XDRO registry' logo on the left and the text 'Sample Hospital' followed by a 'change facility' link on the right. The 'change facility' link is highlighted with a red rectangular box. Below the header is a blue navigation bar with the text 'Test User1' on the left and links for 'Home', 'Help', 'Go Back', and 'Logout' on the right. The main content area contains five blue buttons arranged in two columns: 'Submit Report', 'Search Registry', 'Facility Submission History', 'Facility Alert History', and 'XDRO Dashboard'.

Sample alert email from xdro@mraia.org

Subject: Alert notification from XDRO registry (AID 123)

The XDRO registry has identified that a patient recently admitted to <hospital name> may carry an organism that is highly resistant to antibiotics. Please log in to the XDRO registry (dph.partner.illinois.gov) for details.

For questions, email DPH.XDROregistry@Illinois.gov.

E-MAIL CONFIDENTIALITY NOTICE: This electronic mail message, including any attachments, is for the intended recipient(s) only and may not be forwarded or shared with anyone other than the intended recipient(s). If you are not the named recipient or if you believe that you received this e-mail in error, you are not authorized to view the alert. Please [unsubscribe](#) from the automated alert system, and also notify DPH.Security@illinois.gov if you need to change your facility status.

If you are not the intended recipient, please be aware that any copying, distribution, dissemination, disclosure, or other use of this e-mail and any attachments is unauthorized and prohibited. This e-mail and any attachments contain information that is confidential, privileged and/or otherwise protected or exempt from disclosure under applicable law, including the Department of Public Health Act, the Communicable Disease Prevention Act, the Communicable Disease Report Act, the Control of Communicable Diseases Code, and the Health Insurance Portability and Accountability Act (HIPAA). Your receipt of this message is not intended to waive any applicable privilege or claim of confidentiality, and any prohibited or unauthorized disclosure is not binding on the sender or the Illinois Department of Public Health. Thank you for your cooperation.

This e-mail may be exempt from disclosure under the Illinois Freedom of Information Act (5 ILCS 140) pursuant to exemptions under sections 7(1)(f) and/or 7(1)(m).

Sample alert text message from xdro@mraia.org



Log in to the registry to view alerts

XDRO
registry

Sample Hospital [change facility](#)

Test User1

[Home](#) [Help](#) [Go Back](#) [Logout](#)

Submit Report

Search Registry

Facility Submission History

Facility Alert History



XDRO Dashboard

Facility Alert Page

Sample Hospital Alert

Please click [here](#) to confirm your alert contact information and facility

First name

Last name

Date of birth

 mm / dd / yyyy

Search

Alerts Tracking

Acknowledge	AID	Name	Date of Birth	Organism	Matching	▼Alert Date
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Acknowledge	2	Bug, Super	01/01/1914	Klebsiella pneumoniae	Full Match	03/20/2014

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Full vs Partial Matching

Admitted Patient:
John Smith, 1/5/1967

Full Name:
First name +
Last name + DOB

Partial Name:
First initial +
Last name + DOB

XDRO Registry Records

Full Match:
John Smith, 1/5/1967

Partial Match:
Jon Smith, 1/5/1967
Jack Smith, 1/5/1967



Facility Alert Page

Sample Hospital Alert

Please click [here](#) to confirm your alert contact information and facility

First name


Last name

Date of birth

 / /

Search

Alerts Tracking



Acknowledge	AID	Name	Date of Birth	Organism	Matching	▼Alert Date
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XDRO Report - Test Nursing Home

Patient information

Patient name: Bug, Super**MRN:** 1234**Admission date:** 05/02/2014**Date of birth:** 01/01/1914**SSN (last 4):****Race:****Address:** 122 S Michigan Ave, Chicago, IL 60603

XDRO culture information

Organism: Klebsiella pneumoniae**Culture date:** 06/02/2014**XDRO criterion:** Phenotypic test, E. coli/Klebsiella
resistance**Specimen source:** Urine**Mechanism of resistance:****Comments:**

Submitted by ANGELA TANG, 06/10/2014, Test Nursing Home

[Go Back](#)[Print](#)

Alert Tracking Tool

Sample Hospital Alert

Please click [here](#) to confirm your alert contact information and facility

First name

Last name

Date of birth

mm / dd / yyy

Search



Alerts Tracking

Acknowledge	AID	Name	Date of Birth	Organism	Matching	▼Alert Date
By A.T. 06/01/2016 09:23	323	Submission, Test	01/02/1934	Klebsiella pneumoniae	Full Match	05/23/2016
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Alert Tracking Tool



Sample Hospital [change facility](#)

ANGELA TANG

[Home](#)

[Citations](#)

[Help](#)

[Go Back](#)

[Logout](#)

Sample Hospital Alert Tracking

AID

Last name

Date of birth

 mm / dd / yyyy

[Search](#)

[Alert History](#)

Action	AID	Patient	Alert Date	Not Inpatient	Correct Patient? ^a	Known CRE? ^b	Previous positive at our facility? ^c	Communicated by other facility? ^c	Already on contact precautions? ^d
Save	323	T.S.	05/23/2016	<input type="checkbox"/>	select: ▼	select: ▼	select: ▼	select: ▼	select: ▼
Edit	3	D.E.	03/21/2014	<input checked="" type="checkbox"/>	—	—	—	—	—
Edit	2	S.B.	03/20/2014	<input type="checkbox"/>	Yes	Yes	Unknown	Yes	Yes

a. Sometimes a name and date of birth do not match up to the correct patient, especially if there is a partial match (using date of birth, last name, first initial). Occasionally, you may need to confirm the identity of the patient using additional information (for example, home address).

b. Prior to receiving the CRE alert, did you know that the patient was CRE colonized?

c. If the patient is already a "known CRE", how did you find out? (Answer only if "Known CRE?"= Yes)

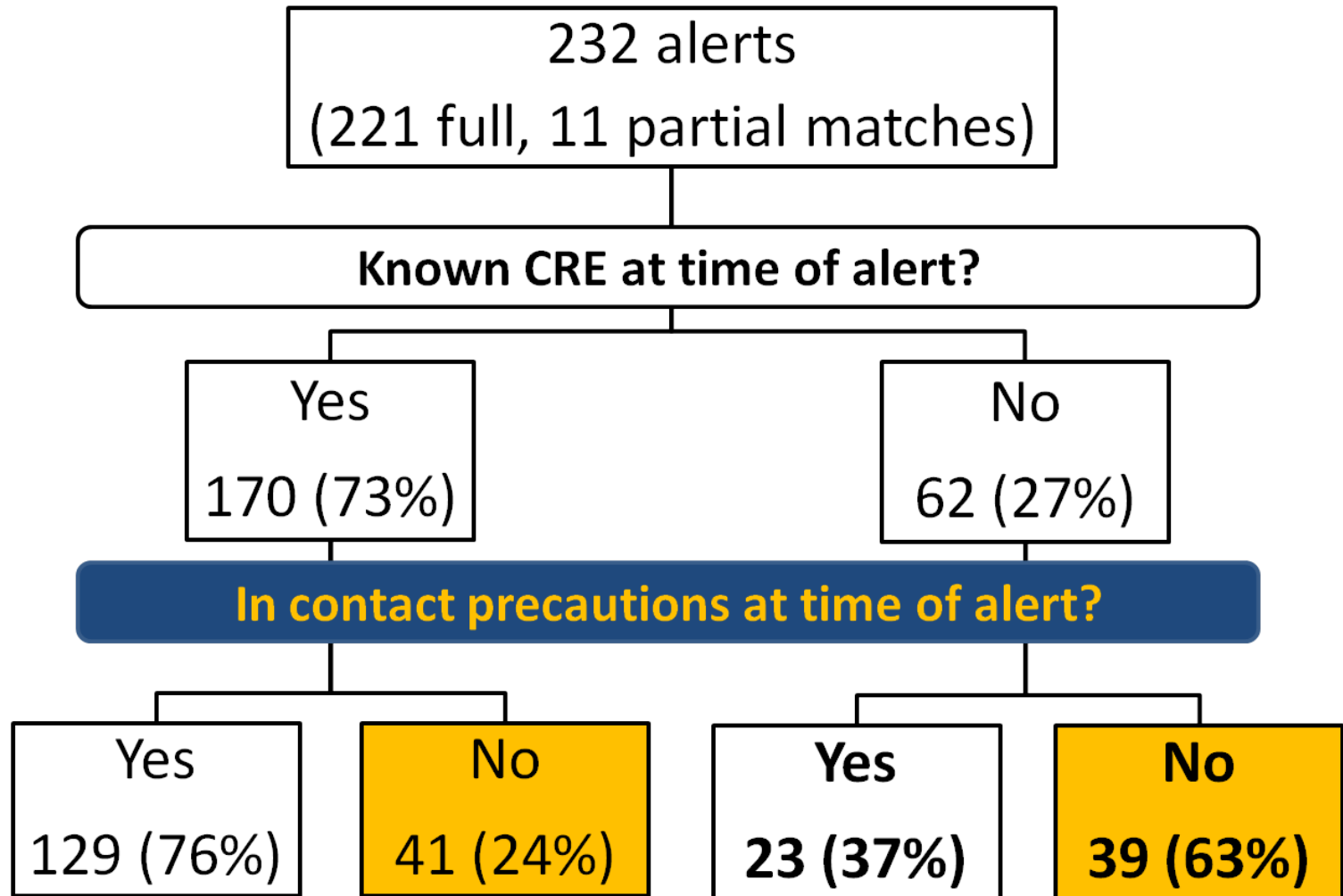
d. At the time you acknowledged (viewed) the alert, was the patient already on contact precautions?

Pilot Alert Outcomes, 1/2015 – 5/2016

Hospital	Hospital Size	Duration (mo.)	Alerts (n)	Alerts/ mo.
A/B	Med/Sm	17	47	2.8
C	Large	11	75	6.8
D	Med	11	35	3.2
E	Large	7	38	5.4
F	Med	5	27	5.4
G	Med	5	8	1.6
H	Small	5	0	-
I	Small	5	1	0.2
J	Small	5	4	0.8

Hospital size: Small (<200 beds), Med (200-500), Large (>500)

Alert Outcomes, 1/2015 – 5/2016



Questions? Comments?

Please email us at

DPH.XDRORRegistry@illinois.gov