

Multidrug-Resistant Organism Reporting, Trends, & Patient Safety Information Exchange

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Ask an IP

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Objectives

- Describe how to report multidrug-resistant organisms to public health
- Explain what the Patient Safety Information Exchange is and how it can be used to identify residents with MDROs
- Complement MDRO containment recommendations from August Ask an IP session

Multidrug-Resistant Organism Reporting & Trends



Reporting in CalREDIE

- CalREDIE will replace our current IRIS System
- Ability to report directly in CalREDIE
- To register or update your information, please use the LA County CalREDIE Provider Portal Account Authorization Form: <https://redcap.link/CalREDIEProviderPortal>




CalREDIE Provider Portal

From paper and fax machines to electronic reporting!

What is CalREDIE?

- California Reportable Disease Information Exchange (CalREDIE) is the California Department of Public Health's (CDPH) communicable disease reporting and surveillance system of record.
- It is used by state and local public health officials and healthcare providers for communicable disease reporting and surveillance.

What is the Provider Portal (PP)?

- Secure, web-based interface within CalREDIE
- Platform to electronically submit Confidential Morbidity Reports (CMRs)

PP Dataflow

1. A reporter submits an incident via the Provider Portal.
2. The submission is automatically sent to CalREDIE.
3. The Local Health Department receives the incident.

Figure 1: PP Dataflow



Registration is required only for individuals designated to submit case reports.
Account users should use the registration link to update their account to register LA County facilities they report on.

1. Register by completing the LA County CalREDIE Account Authorization Form <https://redcap.link/CalREDIEProviderPortal>.
2. LA County CalREDIE Provider Portal Support will provide your account information.
3. Start submitting!

Learn more about the Provider Portal at ph.lacounty.gov/hpreport
For questions, please contact the LA County Support for CalREDIE
Provider Portal: LAC_PPSupport@ph.lacounty.gov

MDRO Reporting Requirements

Organism	Criteria	Who Reports	How to Report	What Changed
Candidoyma auris (C. auris)	Confirmed C. auris	Lab	ELR	No change.
		Provider	Provider Reporting Portal	Report in CalREDIE Provider Portal; REDCap will no longer be available.
Carbapenem-resistant Enterobacterales (CRE) ⁱ	Enterobacterales that are resistant to one or more carbapenems	Provider only	NHSN (hospitals only) or Provider Reporting Portal (skilled nursing facilities only)	No change for hospitals. SNFs can report cases directly in CalREDIE via the Provider Portal and no longer need to complete the paper case report form.
Carbapenemase-producing organisms (CPO)	Positive phenotypic or molecular test result for carbapenemase production ⁱⁱ	Lab only	ELR	No change. REDCap will no longer be available; please ensure your lab is reporting via ELR.
Vancomycin-resistant Staphylococcus aureus (VRSA)	S. aureus with a vancomycin MIC $\geq$ 16	Lab only	ELR	ELR only; REDCap will no longer be available.
Pan-resistant organisms	Gram negative bacteria that are non-susceptible to all antibiotics tested	Lab only	ELR	ELR only; REDCap will no longer be available.

Reporting Outbreaks

- REDCap Outbreak Report Form
- <https://acdcredcap.ph.lacounty.gov/surveys/?s=47PPTCKK8CYWWLM9>



AAA
+ -

Welcome to the Los Angeles County Department of Public Health Report Form for Suspected Outbreaks.

Use this form to report suspected outbreaks in Los Angeles County (does not include Pasadena or Long Beach).

NOTE: Under [Title 17](#), if a diagnosis is known, please refer to the [Reportable Diseases List](#) to determine the specific reporting requirements for that disease. In addition, [Title 17](#) requires reporting of suspected outbreaks, even if the disease is not on the list of individually reportable conditions or if the cause of illness is unknown.

Information entered in this form is confidential. Do not enter personally identifiable information including names into this form. Outbreak line lists are not required at the time of reporting. All reports received after hours or on the weekend will be responded to on the following business day. If you need an immediate response, call 1-888-397-3993. For additional assistance with reporting, contact communityoutbreak@ph.lacounty.gov (for community settings) or hai@ph.lacounty.gov (for healthcare settings) or call 1-888-397-3993.

FACILITY OR SITE TYPE

1) Select the category that best describes the type of facility or site.

* must provide value

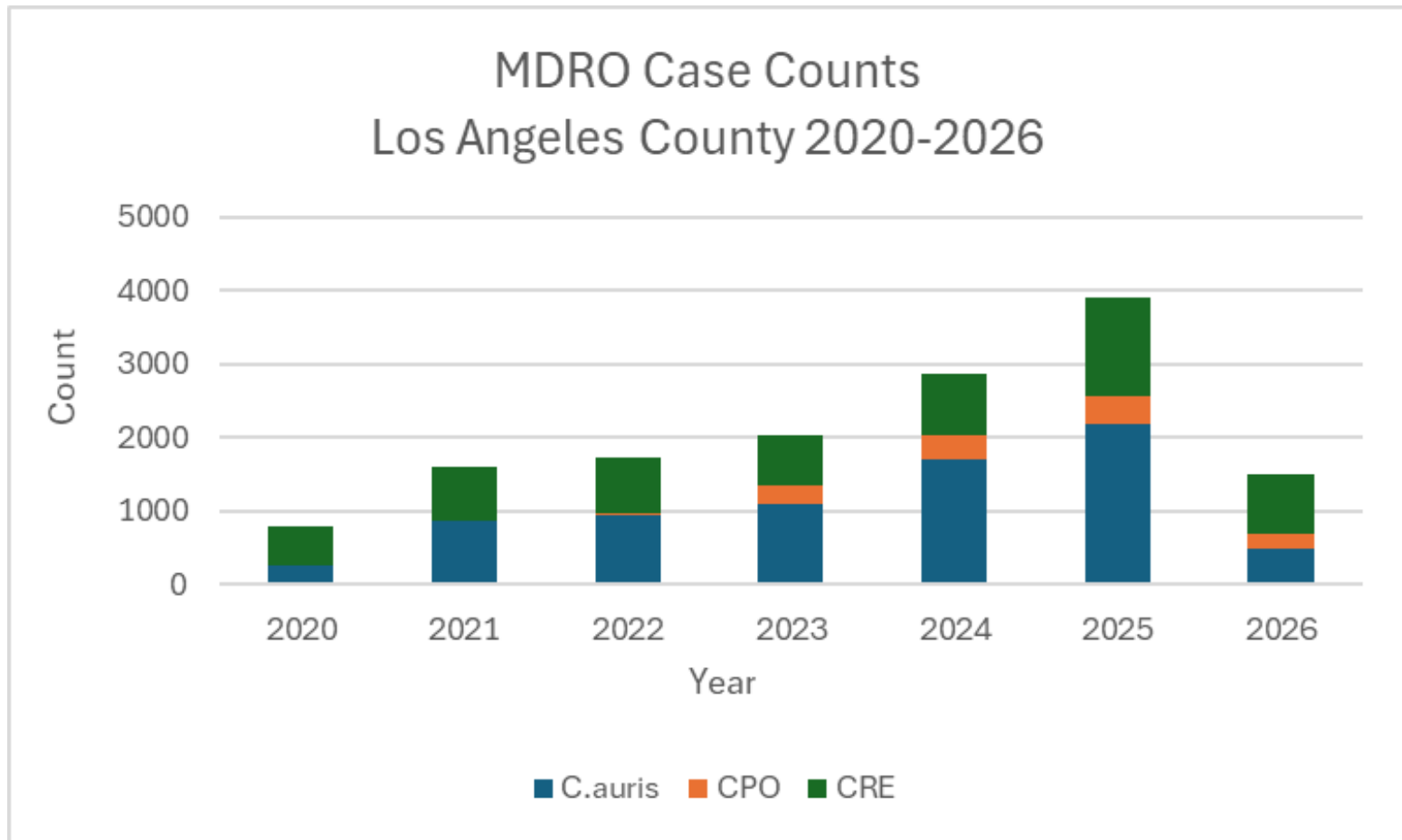
Healthcare setting
Includes acute care hospitals, acute psychiatric hospitals, long term acute care hospitals, outpatient ambulatory dialysis centers or outpatient facilities (home health, dental, and physical therapy offices), skilled nursing facilities (SNFs), and D/P SNFs.

Congregate healthcare setting
Includes adult day healthcare centers (community based adult services/CBAS); congregate living health facilities (CLHFs); and intermediate care facilities (ICFs) of all license types, including those for the developmentally disabled.

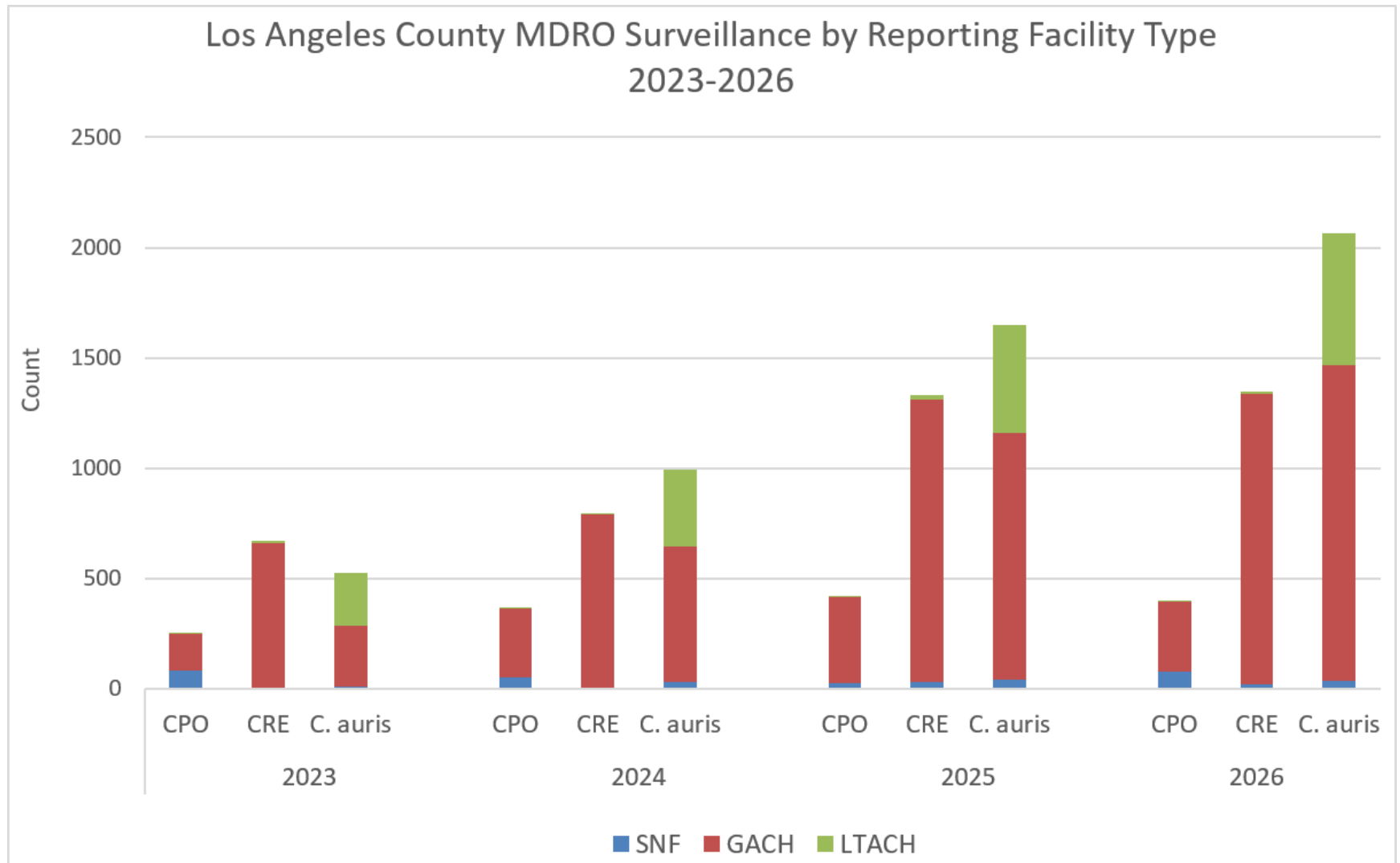
First Responders
EMS, Fire, and Private Ambulance Providers.

Non-Healthcare Community Setting
Includes schools, shelters, adult residential facilities, adult daycare, elderly assisted living, 24 hour residential care for children, and other community care facilities

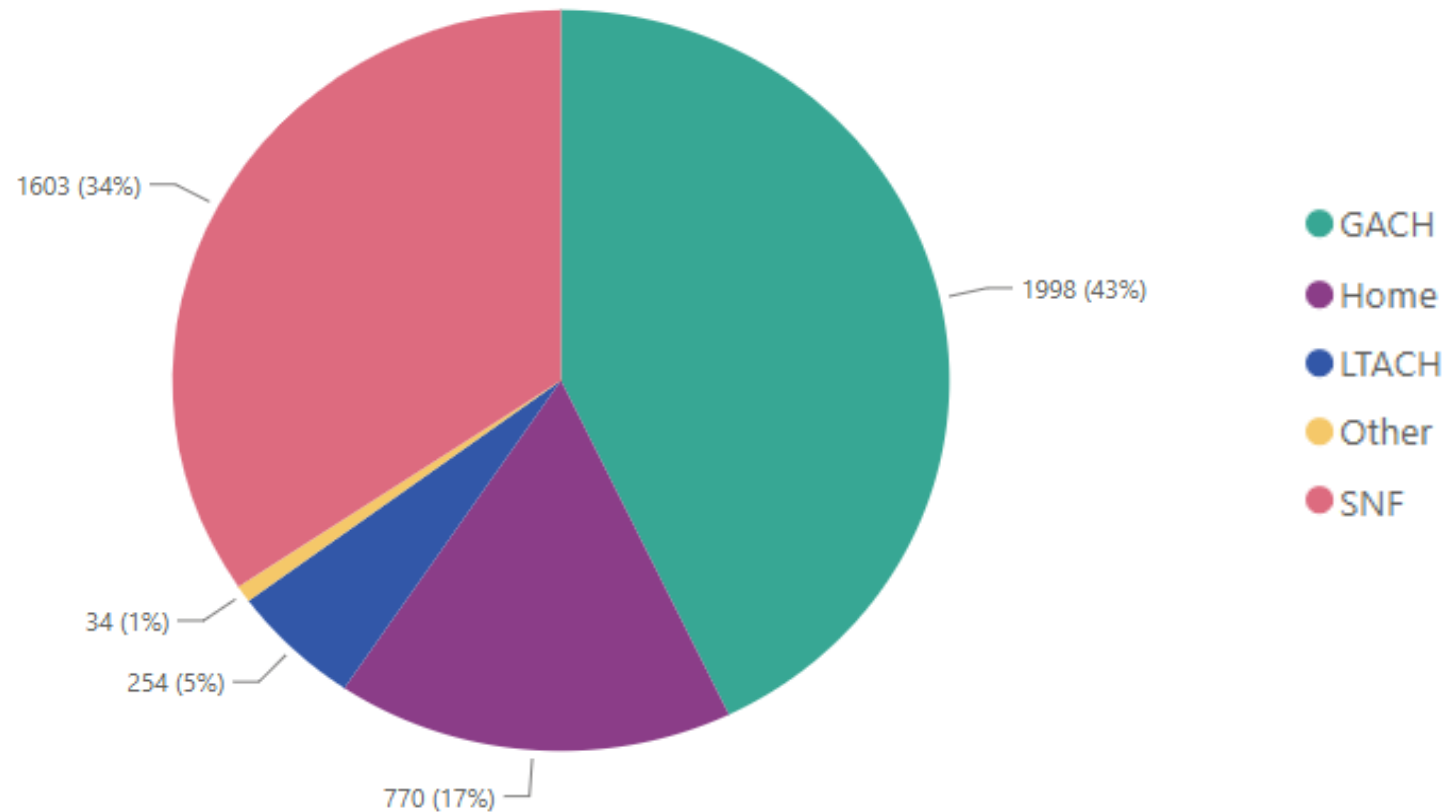
Los Angeles County MDRO Surveillance Data



MDRO Counts by Reporting Facility Type



C.auris Cases – Where the patient was admitted from



C.auris Disease Burden

- From 2023-2026 only 2% of C. auris reports came from SNFs
- 34% of cases had recent SNF admission
- Highlights underlying disease at SNFs that is detected on admission to acute care hospitals



Patient Safety Information Exchange (PSIE)

Case Search



Automated Alerts

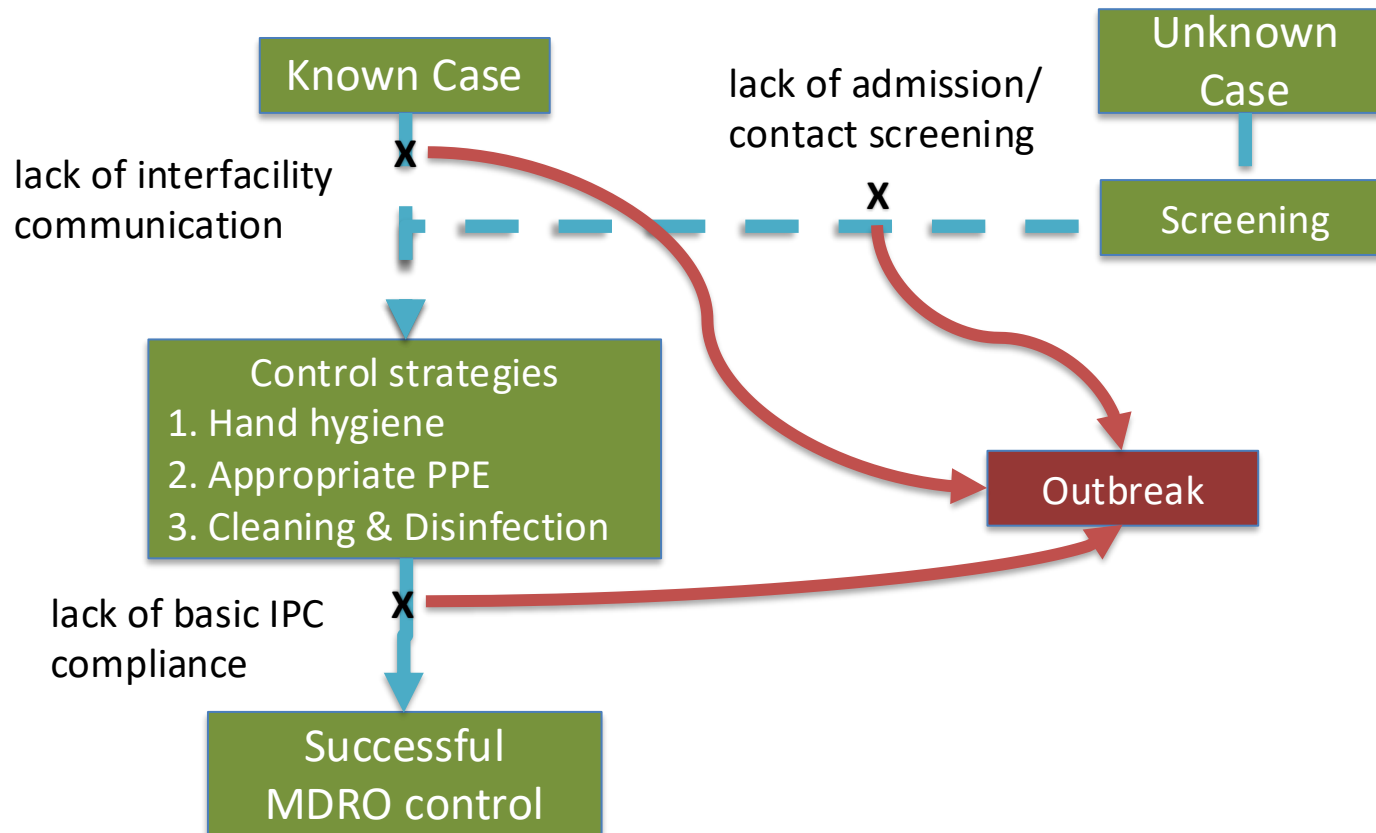


MDRO History



Action

Common causes of MDRO transmission in LA County healthcare facilities



Basics of MDRO Prevention

Hand Hygiene

- Use of alcohol-based hand rub (ABHR) preferred
- Audit/feedback

Personal Protective Equipment

- Appropriate transmission-based precautions (TBP)
 - Hospitals: Contact Precautions
- Audit/feedback

Environmental Cleaning & Disinfection

- Use of EPA- approved disinfectants
- Shared devices/equipment
- Audit/feedback

Surveillance

- Tracking MDRO cases to detect possible clusters
- Intervening when audit/feedback shows areas of concern
- Screening

Inter-facility Communication

- Use of transfer form
- Use of LACDPH PSIE
- IP-to-IP communication

Education

- Staff
- Patients/visitors

Antimicrobial Stewardship

- Judicious use of antimicrobials
- Physician/family education

Reducing risk from water sources

- Conduct WICRA

Focusing on Interfacility Communication

- Intermittent form use
- Spot checks
 - 27% of known MDRO cases had documentation on MDRO when transferred to next facility

Los Angeles County Department of Public Health
Infectious Organism Transfer Form
Use this form for all patient transfers between facilities. This form is not intended to be used as criteria for admission. On transfer, please include all positive lab results that pertain to this form.

Patient Label Here:

Patient Name: _____

DOB: _____ MRN: _____ Transfer Date: _____

Receiving Facility (RF): _____

RF Contact Name: _____ RF Contact Phone: _____

Sending Facility (SF): _____

SF Contact Name: _____ SF Contact Phone: _____

Precautions

Check all appropriate Isolation Precautions: ☐ Airborne ☐ Contact ☐ Droplet ☐ Standard

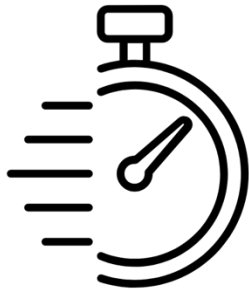
Personal protective equipment (PPE) recommended:

 ☐ Gown  ☐ Mask  ☐ N95/PAPR  ☐ Eye Protection  ☐ Gloves

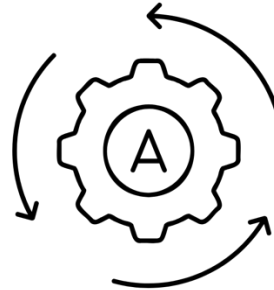
Organisms ☐ NONE IDENTIFIED

Organism(s) Identified	Specimen Source	Collection Date	Status: Colonization, History, Infection, Rule-Out
☐ C. auris (Candida auris)			
☐ C. diff (Clostridioides difficile)			
☐ CRE (Carbapenem-resistant Enterobacteriales)			
☐ MDR Gram negatives: (e.g. Acinetobacter, Pseudomonas)			
☐ MRSA (methicillin-resistant Staphylococcus aureus)			
☐ VRE (vancomycin-resistant Enterococcus)			
☐ Other, specify: (e.g. COVID-19, flu, lice, norovirus, scabies, TB, VRSA, etc.)			

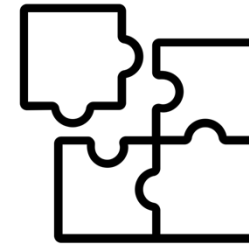
Solution Needs



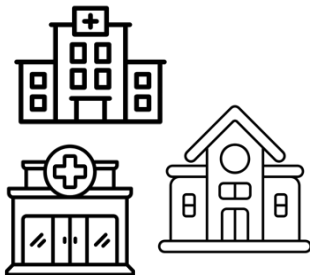
Fast, real-time



Automated due to
high volume



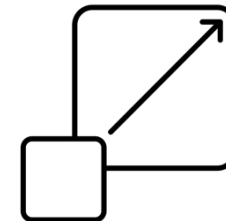
Interfaces with existing
DPH systems



Meet diverse needs,
abilities of facilities



Secure, HIPAA-compliant



Scalable, can add
diseases

Simplifying Access to Patient MDRO History



Release I (June 2024)

Secure web-based resource where healthcare facilities can quickly search and learn of a patient's MDRO status

Release II June 2026)

Secure web-based resource where healthcare facilities can quickly search and learn of a patient's MDRO status

&

Automated alerts to healthcare facilities when a patient with a known MDRO history is admitted



PSIE Data Flow

Reported Cases



PSIE Registry



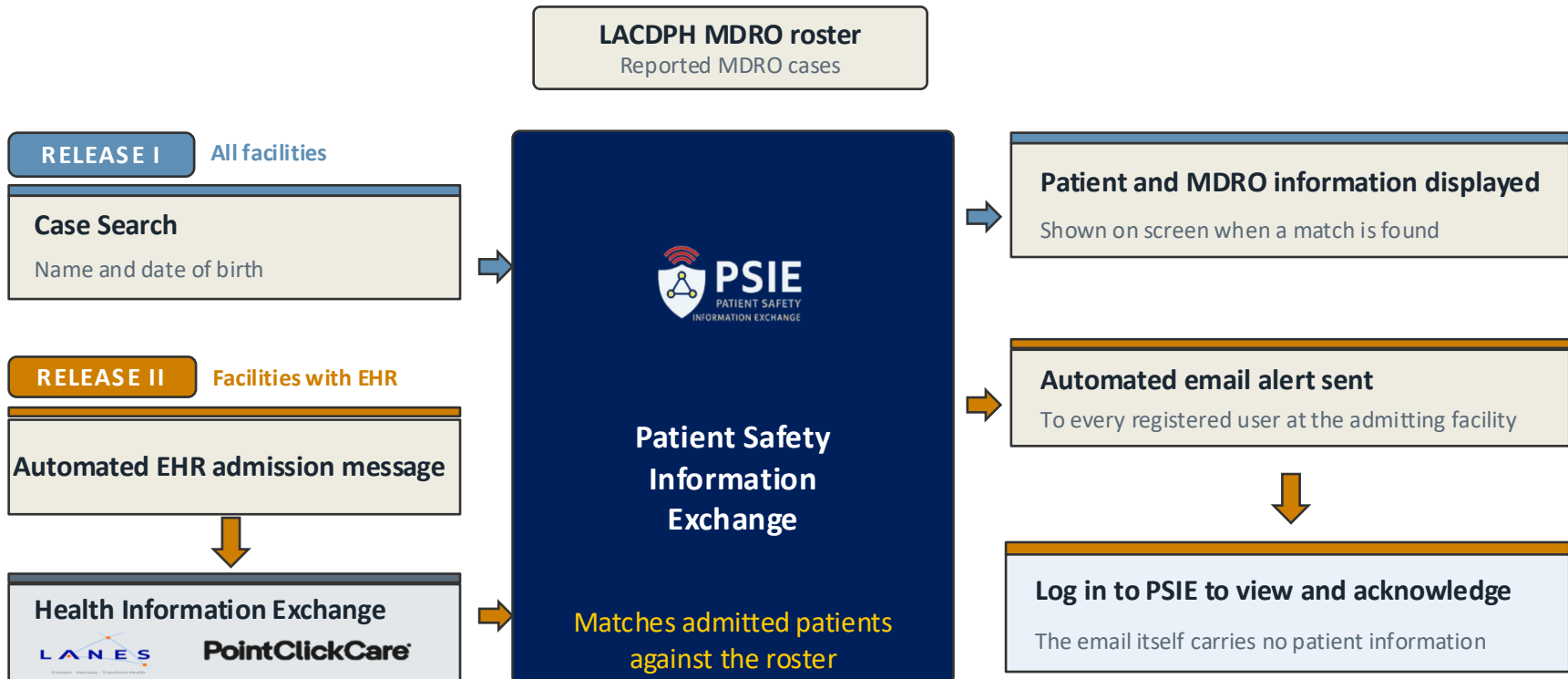
Admission Match



Facility Alert

How PSIE Works

Release I supports Case Search; Release II adds automated alerts for participating facilities.



Release II adds the automated alerting pathway. **Case Search remains available** whenever you need to look up a patient.

What is PSIE?

What it does, and what it does not replace

PSIE is:

- **A secure, web-based source of MDRO history**
Searchable from any location with your County login.
- **An automated alert at admission**
Emailed to every registered user at the admitting facility.
- **A county-wide view**
For patients within your facility's search scope, PSIE shows confirmed MDRO results reported to LACDPH from any reporting facility.
- **Information to inform precautions**
To help decide on transmission-based or contact precautions.

PSIE is not:

- **A mechanism to report MDRO cases**
Keep reporting through your usual channels. PSIE displays what has already been reported.
- **The only method of interfacility communication you should use**
Keep using transfer forms and direct contact with the sending or receiving facility.

Why this matters

Seeing an MDRO in PSIE does not discharge your reporting duty, and it does not replace the handoff conversation when a patient transfers.

PSIE tells you what happened before the patient reached you. It adds to your screening, reporting and communication rather than replacing any of them.

What Changed in Release II

Release I waited for you to search. Release II tells you when to look.

PSIE is a secure web-based resource

where healthcare facilities can quickly search and learn a patient's MDRO status. Release II adds automated alerts on top of that.

Release I • June 2024

Search only

- Look up a patient by name and date of birth
- Nothing alerted you. You had to search each patient

225 users registered from 145 hospitals and SNFs

Release II • June 2026

Search plus automated alerts

- An email tells you when an MDRO patient is admitted
- Search still works, and now handles partial name spellings
- Patient and MDRO details can be saved to your records

291 users and 196 hospitals and SNFs.

WHAT THIS MEANS DAY TO DAY

When a patient with a known MDRO history is admitted to your facility, PSIE emails everyone registered there. Case search is still available whenever you want to look up a specific patient.

Both features cover the same three organisms: **Candida auris**, **CPO**, and **CRE**. All confirmed MDRO incidents reported to LA County DPH.

Which conditions are included in PSIE?

Candida auris

A drug-resistant yeast that spreads readily in healthcare settings and persists on surfaces.

Carbapenemase-producing organisms (CPO)

Organisms carrying a carbapenemase gene, for example KPC. The mechanism may be reported without the organism being speciated.

Carbapenem-resistant Enterobacterales (CRE)

Enterobacterales resistant to carbapenems, whether or not a carbapenemase has been identified.

All confirmed MDRO incidents for these organisms reported to the Los Angeles County Department of Public Health, from any reporting facility in the county.

Other multidrug-resistant organisms are not included. Keep following your own screening and surveillance for organisms outside this list.

Novel and targeted MDROs are organisms that Public Health prioritizes for containment.



PSIE Registration

Registration Form



User Agreement



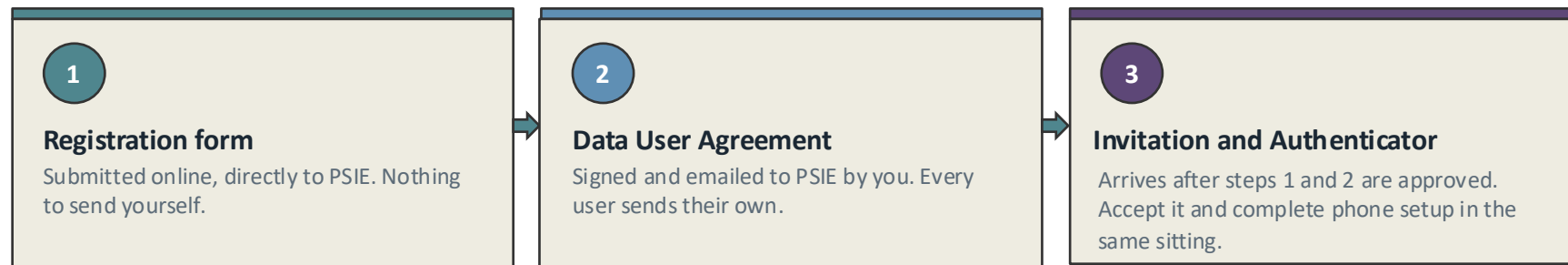
Invitation



Access

Getting Access: The Three Steps

All three must be finished before your account works



WHERE ACCESS USUALLY STALLS

The form is submitted, the agreement is missed

The form submits online. The signed agreement has to be emailed in. No account is created until it arrives.

The setup is not finished, or the first login is delayed

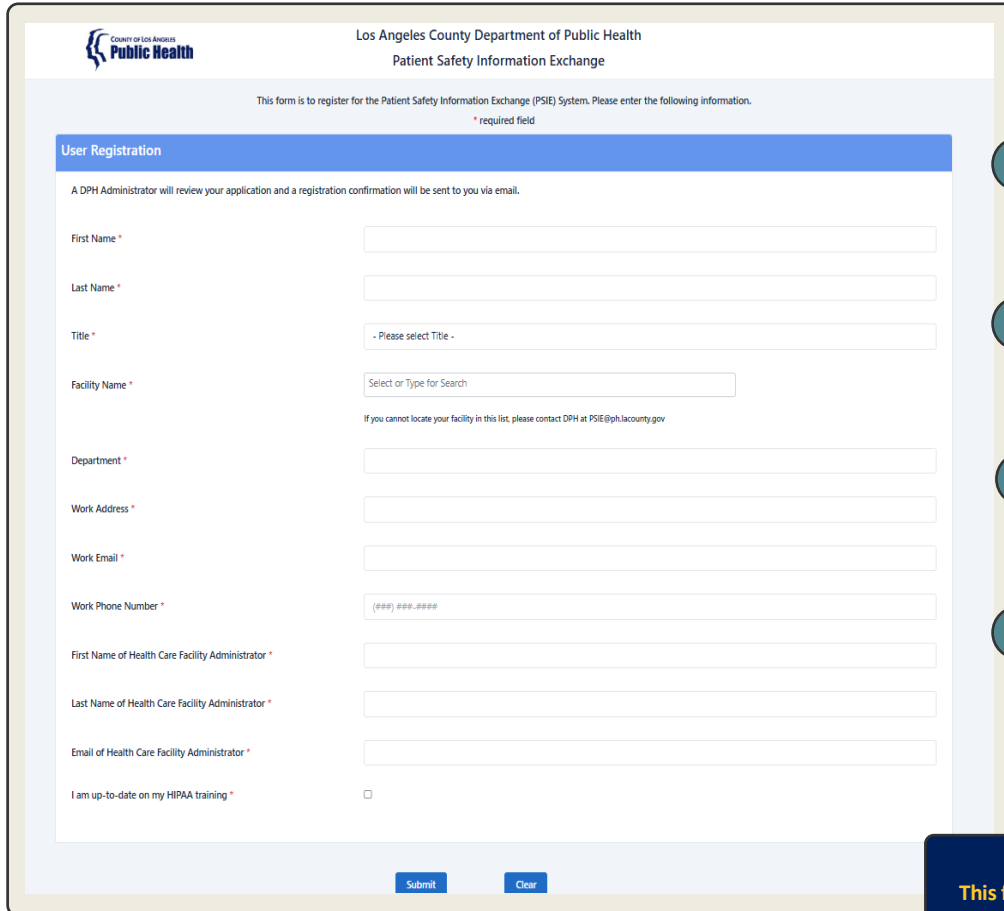
- If the invitation is accepted but the set up is not completed, we have to revoke the account and send a new invitation.
- If access is granted but the user never logs in. A new invitation may be needed.

Already a Release I user? You are enrolled in Release II automatically. Your existing login still works and there is nothing to complete.

To start, email PSIE@ph.lacounty.gov for the form links. Register more than one, and choose the staff who place patients on precautions.

Step 1: The Registration Form

Submitted online • this alone does not create an account



Los Angeles County Department of Public Health
Patient Safety Information Exchange

This form is to register for the Patient Safety Information Exchange (PSIE) System. Please enter the following information.
* required field

User Registration

A DPH Administrator will review your application and a registration confirmation will be sent to you via email.

First Name *

Last Name *

Title *

- Please select Title -

Facility Name *

Select or Type for Search

If you cannot locate your facility in this list, please contact DPH at PSIE@ph.lacounty.gov

Department *

Work Address *

Work Email *

Work Phone Number *

(###) ###-####

First Name of Health Care Facility Administrator *

Last Name of Health Care Facility Administrator *

Email of Health Care Facility Administrator *

I am up-to-date on my HIPAA training *

☐

Submit **Clear**

WHAT TO ENTER

- 1 Your facility email address**
Personal email addresses are not accepted.
- 2 Every facility you cover**
You can list more than one on the same form.
- 3 Your IP or Administrator/DON**
Fill this in even when that person is you.
- 4 HIPAA training attestation**
Confirm your training is current before submitting.

This form submits online step 1 of 3. No account is created until the signed Data User Agreement is emailed in as well.

Step 2: The Data User Agreement

Your printed name is needed in two places on the signature block

DATA USER AGREEMENT
BY AND BETWEEN
THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH
ACUTE COMMUNICABLE DISEASE CONTROL PROGRAM
AND

User must read this Data User Agreement before applying for, accepting, or using a user account to access Los Angeles County Department of Public Health's Patient Safety Information Exchange.

This Data User Agreement ("Agreement") is entered into by and between the LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH (hereinafter referred to as "DPH") and the Patient Safety Information Exchange ("PSIE") user (hereinafter referred to as "Data Recipient"). DPH and Data Recipient are collectively referred to herein as "the Parties". DPH agrees to share identified data with Data Recipient to assist the latter in quickly and accurately identifying patients with known MDRO infections to prevent the spread of disease or occurrence of additional cases. The Data Recipient will identify patients who were admitted to their healthcare facility and check the DPH PSIE system to know whether a patient has a known MDRO infection and their MDRO history. The DPH data will assist the Data Recipient to more efficiently know when an admitted patient has a MDRO in order to put appropriate contact precautions in place at their facility to prevent MDRO transmission.

Term: This Agreement will commence on the date the Data Recipient obtains their PSIE registration form to DPH and is renewed each year with the attention by the Data Recipient of their HIPAA training. By submitting the PSIE registration form, Data Recipient is expressing his/her agreement to the terms of the Agreement.

The Data Recipient agrees to adhere to Access Requirements as follows:

1. Make true representations regarding information to be used in his/her profile for identification and authentication purposes.
2. Make use of the PSIE resources solely for legal and authorized State and Public Health business, consistent with applicable local, state and federal laws, mandate and regulations.
3. Take reasonable precautions to prevent any compromise, modification, loss, disclosure, or unauthorized use of his/her user account and associated privileges.
4. Immediately inform DPH in writing of a suspected compromise of the user account and fully cooperate with DPH to investigate and stop the issue.

The Data Recipient agrees to adhere to Confidentiality Requirements as follows:

1. The Data Recipient shall not use, divulge, or otherwise compromise the integrity of his/her user account and password.
2. To access PSIE only in the course of his/her official duties and for the purpose listed in this agreement.

The signatories below hereby attest that they are authorized to commit to this Agreement on behalf of their respective organization and further agree to abide by all of the terms specified in this Agreement.

DATA RECIPIENT:

SIGN HERE

User Name: **Date:**

Title:

Organization:

DATA PROVIDER:

 01/22/2026

Name: Sharon Balter, MD Date

Title: Director

Organization: Acute Communicable Disease Control Program

THE TWO PLACES YOUR NAME GOES

1 Signature line
The upper box, tagged Sign here. A typed name here counts as your signature.

2 User Name field
Directly below it. This is the printed name.

Easiest way to get it right: type your name into the fields rather than drawing or scanning. Typing it once fills the matching field automatically

Where people get caught

- A drawn or image signature does not fill the printed name field the upper box stays empty.
- A hand-written, scanned copy has no typed name at all. Print your name legibly in both places before scanning.

Also, complete

- Date · Title · Organization
- Open in Adobe Acrobat.
- One per user; you email it to PSIE.

Step 3: Invitation and Authenticator

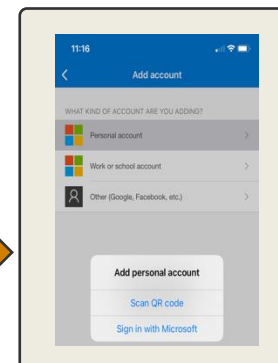
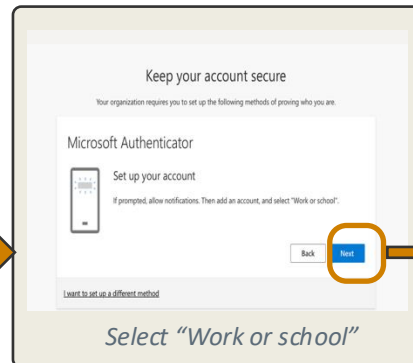
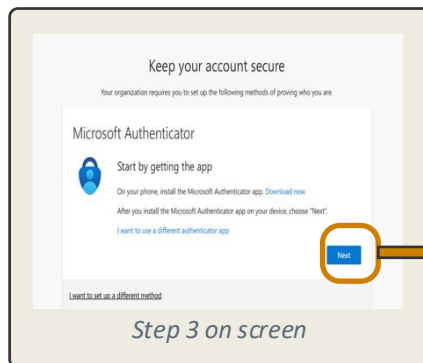
Move between your computer and phone to complete setup

On your computer

- 1 Open the invitation email and select the link to accept it
- 2 Sign in using the facility email you registered with PSIE
- 3 “Keep your account secure” appears. Choose Next
- 4 A QR code is displayed. Leave this screen open.
- 5 Complete the number-matching prompt when it appears

On your phone

- 1 Install Microsoft Authenticator (App Store or Google Play)
- 2 Open the app and tap + to add an account
- 3 Choose Work or school account
- 4 Tap Scan QR code and allow camera access
- 5 Scan the code on your computer screen



Finish in one sitting

An accepted invitation with unfinished setup can leave an account that cannot be used.

The account may need to be revoked and a new invitation issued. Set aside about ten minutes and have your phone ready before opening the invitation.

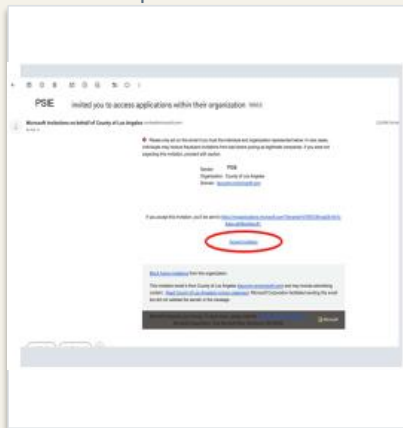
Stuck part-way through? Email PSIE@ph.lacounty.gov. Helping mid-setup is far quicker than reissuing.

Step 3: Setting Up Microsoft Authenticator

Complete these steps in one sitting, moving between your computer and your phone.

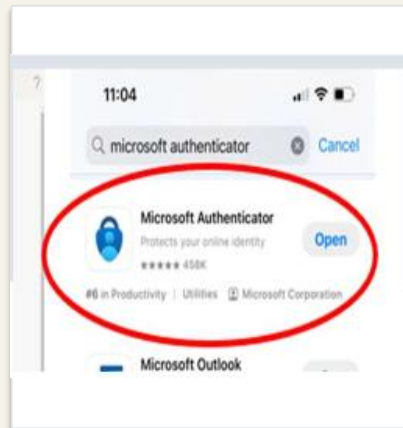
1 Accept the invitation

Open the Microsoft invitation sent to your registered facility email and select "Accept Invitation."



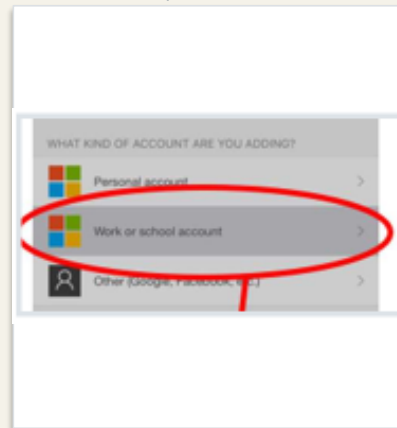
2 Install the app

Download Microsoft Authenticator from the App Store or Google Play.



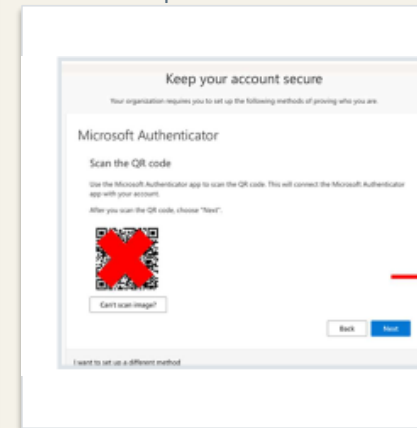
3 Add a work or school account

In Authenticator, tap +, choose "Work or school account," then select "Scan QR code."



4 Scan and finish

Scan the QR code shown on your computer, then follow the prompts to finish setup.



Already use another LA County app, such as IRIS?

You may not need to set up Microsoft account authentication after selecting "Accept Invitation." If "Accept Invitation" opens an Apps Dashboard, setup is complete. The Apps Dashboard will not take you directly to the PSIE website.



PSIE: Case Search & Patient Data

Search



Confirm Patient



Open Record



Review MDRO History



Now That You Have Access

What PSIE does for you day to day

1 Alerts arrive by email When a patient with a known MDRO history is admitted to your registered facility, every registered user there is emailed.	2 Search a patient's MDRO history Look someone up by name and date of birth to decide on transmission-based (TBP) or contact precautions (CP).	3 Reach it from anywhere Secure web-based login. You can check a patient anytime, anywhere with secure web-based login.	4 County-wide reported results All confirmed MDRO incidents reported to LA County DPH.
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WHAT IS IN THE REGISTRY

Candida auris
Carbapenemase-producing organisms (CPO)
Carbapenem-resistant Enterobacterales (CRE)

TWO WAYS INTO THE SAME RECORD

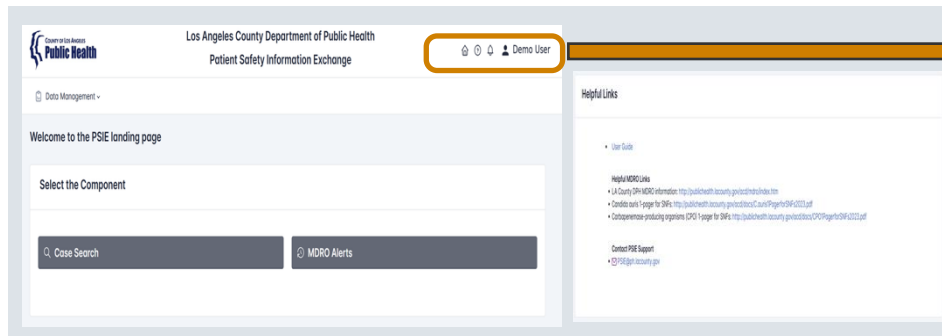
Case Search for a patient you are asking about
MDRO Alerts for patients PSIE is telling you about

PSIE tells you what happened before the patient reached you. It does not replace your own screening and surveillance.

Logging In and Getting Around

Two things that stop people before they ever reach a patient record

THE PSIE LANDING PAGE AT PSIE.PH.LACOUNTY.GOV



GETTING AROUND · TOP RIGHT OF EVERY SCREEN

-  **Home**
Back to the landing page from any screen.
-  **Help**
The help page and the PSIE HCF User Guide.
-  **Notifications**
Sits between Help and your name.
-  **Your name**
My Info for your profile, and Sign out.

1 Use your facility email address

Microsoft sign-in opens automatically. Select your facility account from the list.

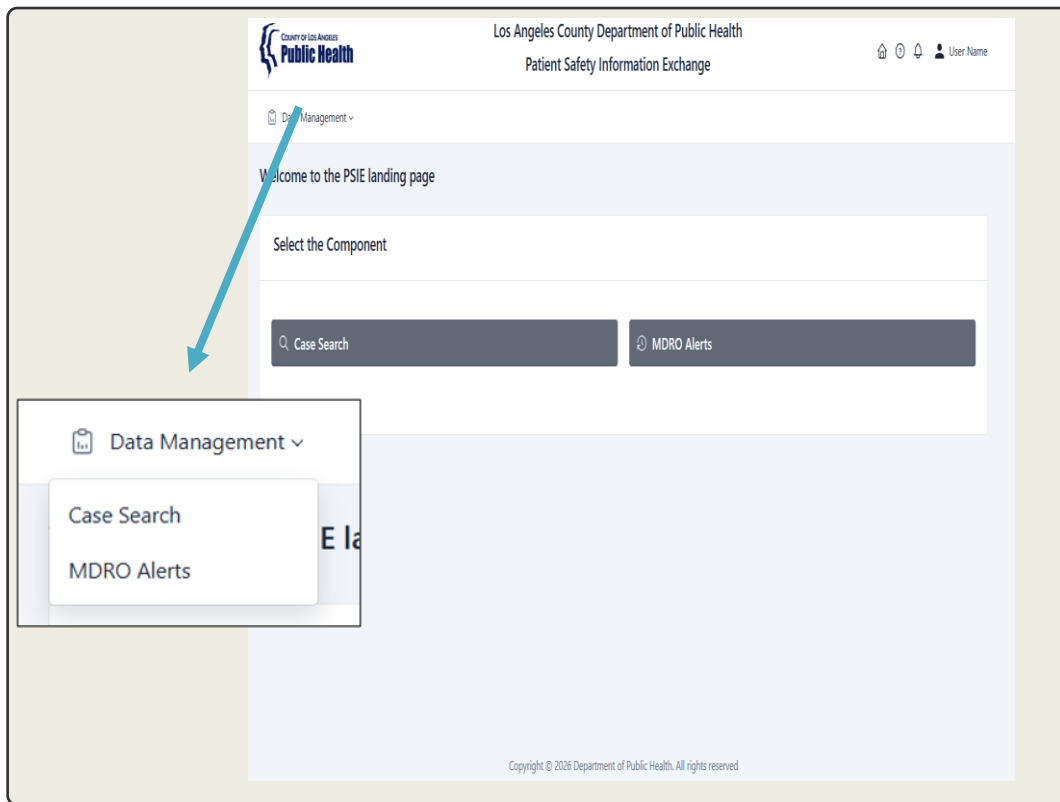
2 A personal email will not work

An account ending @ph.lacounty.gov has no PSIE access, even if you also hold one.

PSIE signs you out automatically after 10 minutes of inactivity. Log back in at PSIE.ph.lacounty.gov.

The Landing Page

Two ways in, once you are logged in



SELECT THE COMPONENT

Case Search

Look up a specific patient by name and date of birth.

MDRO Alerts

Open alerts generated for your registered facility, and acknowledge them.

Reading the Disease Information

A patient may have one result or several

One result

Debra Smith

Patient Information

Patient Identifiers

Disease Information

Carbapenemase-producing organisms (CPO)

Please see the LACDPH MDRO website for more information and guidance on CPOs. For SNFs, see our CPO one-pager.

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REPORT
4163416	Not Identified	KPC	1/23/2024	Rectal	GAC

One result appears as, one row in the table

Review the organism, concerning resistance, collection date and specimen source

Several results

Andrea Green

Patient Information

Patient Identifiers

Disease Information

Candida auris

Please see the LACDPH MDRO website for more information and guidance on C. auris. For SNFs, see our C. auris one-pager.

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REPORT
6893463	Candida auris	Not Identified	3/2/2023	Urine	
6893463	Not Identified	Not Identified	8/27/2022	Other	
6893463	Candida auris	NA	8/26/2022	Urine	GAC

The same patient may have multiple results from different dates

Review every row. Each row represents a separate result, so a patient may have repeated positives from different dates or specimen sites.

Each table is one disease. A patient with results in more than one disease will have more than one table.

Case Search: Running a Search

What to enter and how to widen it when spelling varies



SEARCH FIELDS

Last name	Required · minimum two characters
First name	Minimum two characters
Date of birth	Exact date · can now be typed

Use * when spelling is uncertain

Mat* returns Mathew and Matt, Ste*en returns Steven and Stephen , and *son returns Johnson and Peterson in one search. Useful when the transfer document and your admission record disagree.

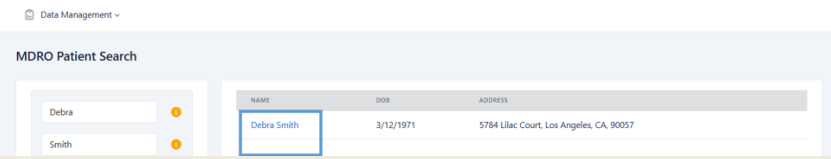
ALSO NEW IN RELEASE II

Date of last data update is clearer · patient and MDRO information can be downloaded

Opening a Patient Record

Search for the patient → Confirm the patient → Open the record

Search, then select the patient's name



MDRO Patient Search

Debra
Smith

NAME	DOB	ADDRESS
Debra Smith	3/12/1971	5784 Lilac Court, Los Angeles, CA, 90057

Patient Information



Debra Smith

Patient Information

Patient Identifiers

Gender
Female

DOB
3/12/1971

Age
55 years, 2 months and 29 days

Address
5784 Lilac Court, Los Angeles, CA, 90057

Phone
(H) (423) 729-3577
(C) NA
(W) NA

Disease Information
Carbapenemase-producing organisms (CPO)

Patient Identifiers section, expanded

Last name is required

Minimum two characters. First name and date of birth narrow it.

Confirm before opening

Name, date of birth and address distinguish patients with common names.

MDRO Data Last Updated

Shown below the search fields to indicate how current the registry data are.

Case search is limited to your registered facility. Patient Identifiers is collapsed when the record opens. Expand it to view gender, date of birth, age, address, and phone.

One Patient, Several Results

The record is a history, not a single result

The screenshot shows a patient record for Andrea Green. Under the 'Disease Information' section, there is a table for 'Candida auris'. The table has columns for PERSON ID, ORGANISM, CONCERNING RESISTANCE, COLLECTION DATE, SPECIMEN SOURCE, and REPO. There are three rows of data, all for the same patient ID (6893463) but with different collection dates and specimen sources.

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REPO
6893463	Candida auris	Not Identified	3/2/2023	Urine	
6893463	Not Identified	Not Identified	8/27/2022	Other	
6893463	Candida auris	NA	8/26/2022	Urine	GAC

Three results for the same person, on different dates and from different sites

WHAT TO READ ACROSS THE ROWS

Same Patient on every row

All rows belong to one patient. The identifier does not change.

Different collection dates

Rows are separate specimens over time, so you can see repeat positives.

Different specimen sources

Results may come from different specimen sources, such as urine, rectal, or other sites..

Grouped by disease

The heading above the table names the group, for example Candida auris or CPO.

Scroll the table sideways to reach the remaining columns, including reporting facility type.

Read every row. The most recent result is not always the only one that matters.

When a Patient Has More Than One Disease

Disease Information may include more than one disease section.

Disease Information

CRE (Carbapenem-Resistant Enterobacterales) ▾

Candida auris ▲

Please see the LACDPH MDRO website for more information and guidance on *C. auris*. For SNFs, see our *C. auris* one-pager.

PERSON ID	ORGANISM	CONCERNING RESISTANCE 	COLLECTION DATE	SPECIMEN
622190	Candida auris	NA	8/14/2024	Skin

WHAT THIS SHOWS

Results are grouped by disease

Each disease appears in its own expandable section.

Expand a section to view results

Open the disease section to see the available results.

Sections open independently

One disease can remain collapsed while another is expanded.

A patient may have results for more than one disease. Review each disease section shown in the record.

When a Field Says “Not Identified”

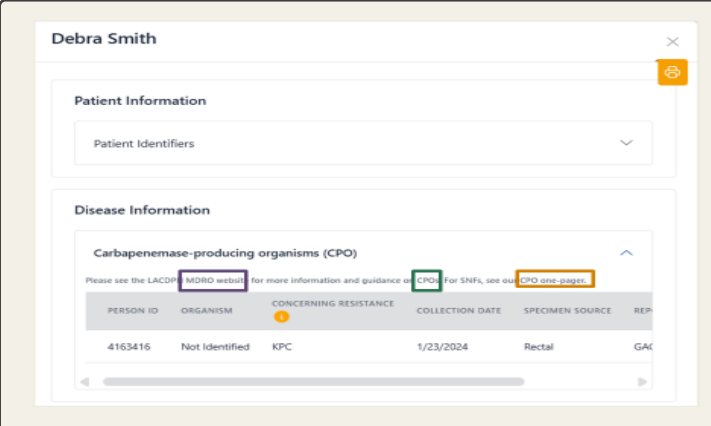
THREE PATTERNS YOU MAY SEE

ORGANISM Identified	CONCERNING RESISTANCE Not identified	The organism was identified, but no concerning resistance was identified in the reported laboratory result.
ORGANISM Not identified	CONCERNING RESISTANCE Identified	A resistance mechanism or gene was identified directly from the specimen, but the organism itself was not identified.
ORGANISM Not identified	CONCERNING RESISTANCE Not identified	Both fields may show Not identified. Read each field as reported and do not assume more than the PSIE record tells you.

“Not identified” does not mean negative.

Guidance Is Linked Directly From the Record

Three links connect users directly to guidance and resources.



Debra Smith

Patient Information

Patient Identifiers

Disease Information

Carbapenemase-producing organisms (CPO)

Please see the LACDP [MDRO website](#) for more information and guidance on [CPOs](#). For SNFs, see our [CPO one-pager](#).

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REP
4163416	Not identified	KPC	1/23/2024	Rectal	GAC

Each highlighted phrase is a link.



CPO guidance

Infection prevention and control guidance for MDROs, including *C. auris*, CPOs, and CROs.



CPO one-pager

Printable do-and-don't guidance for skilled nursing facilities.



MDRO website

Reporting instructions, organisms of interest, and contact information.

Links are **disease-specific**. A *Candida auris* record, for example, links to *C. auris* guidance and resources.

Guidance is linked directly from the record, so the information you need is one click away.

LACDPH SNF MDRO Guidance

Quick reference for transmission-based precautions, cohorting, and MDRO response

SNF MDRO GUIDANCE



SCAN ME

Scan to open

Skilled Nursing Facility (SNF) MDRO Guidance

Los Angeles County Department of Public Health (LAC DPH) Healthcare Outreach Unit



Skilled Nursing Facility guidance for MDRO prevention, precautions, and cohorting.

Open SNF MDRO Guidance

<http://publichealth.lacounty.gov/acd/docs/SNFMDRGuidance.pdf>

TBP & Cohorting Recommendations

Table 4 provides organism-specific recommendations for precautions and cohorting.

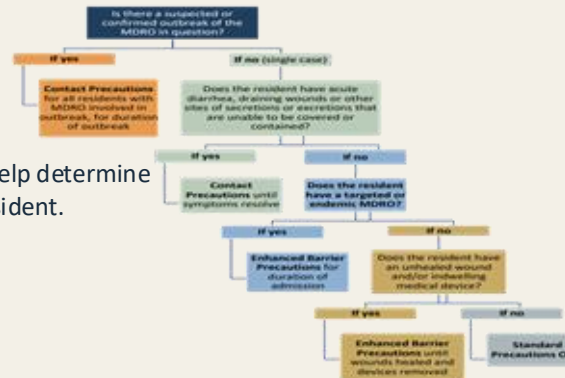
Table 4: TBP and Cohorting Recommendations by MDRO Type

Organism	TBP Type	How to cohort*
Common MDROs (MRSA, VRE, ESBL)	SP Only	Cohort with anyone (no need to cohort with another resident with the same organism), unless the facility is experiencing an outbreak for which cohorting needs to be prioritized. See LACDPH Rethinking Contact Precautions for MRSA and VRE for more guidance: http://publichealth.lacounty.gov/acd/RethinkingContactPrecautions/index.htm
CPOs	EBP	Cohort only with other residents with the same carbapenemase gene (KPC, IMP, NDM, OXA, VIM), unless there is an outbreak with a targeted MDRO for which cohorting needs to be prioritized. If a SNF is unable to admit or cohort a new MDRO-positive resident due to a lack of a compatible roommate*, the new resident can be placed in a room with a non-positive resident with the fewest risk factors for MDRO acquisition.*
CROs	EBP	Cohort only with other residents with the same organism, unless there is an outbreak with a targeted MDRO for which cohorting needs to be prioritized. If a SNF is unable to admit or cohort a new MDRO-positive resident due to a lack of a compatible roommate*, the new resident can be placed in a room with a non-positive resident with the fewest risk factors for MDRO acquisition.*
C. auris	EBP	Cohort only with other residents with the same organism unless there is an outbreak with a targeted MDRO for which cohorting needs to be prioritized. If a SNF is unable to admit or cohort a new MDRO-positive resident due to a lack of a compatible roommate*, the new resident can be placed in a room with a non-positive resident with the fewest risk factors for MDRO acquisition.*
VRSA	CP	Cohort only with other residents with the same organism.
Novel MDRO	CP	Cohort only with other residents with the same organism.

Choosing Appropriate TBP

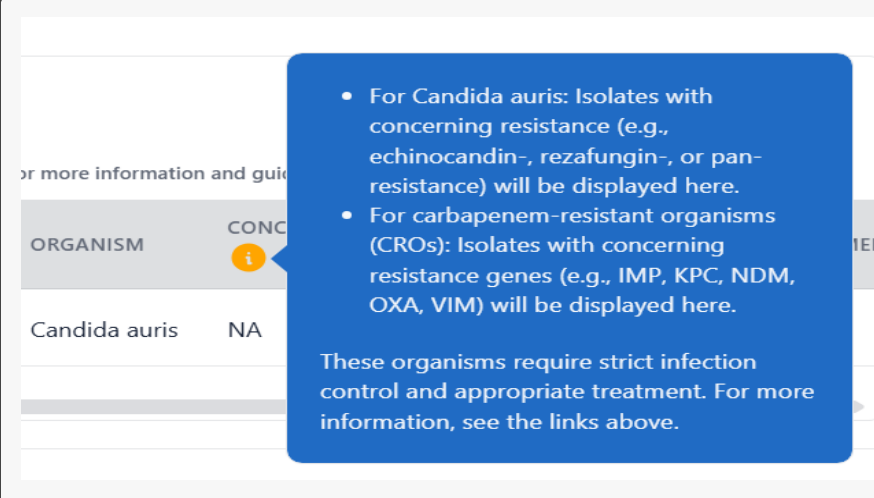
Use the flowchart on pages 10–11 to help determine the appropriate precautions for the resident.

Figure 1: Flowchart to determine appropriate TBP



What Does the “!” Icon Mean?

The icon explains the Concerning Resistance column; it is not a patient-specific warning.



or more information and guid

ORGANISM	CONC	IE
Candida auris	NA	

Information:

- For *Candida auris*: Isolates with concerning resistance (e.g., echinocandin-, rezafungin-, or pan-resistance) will be displayed here.
- For carbapenem-resistant organisms (CROs): Isolates with concerning resistance genes (e.g., IMP, KPC, NDM, OXA, VIM) will be displayed here.

These organisms require strict infection control and appropriate treatment. For more information, see the links above.

Hover over “!” icon to view an explanation of this field.

Information, not an alert

The “!” opens an explanation of what may appear in the Concerning Resistance column.

Meaning depends on the organism

For *C. auris*, the field may show concerning antifungal resistance. For CROs, it may show resistance genes such as IMP, KPC, NDM, OXA, or VIM.

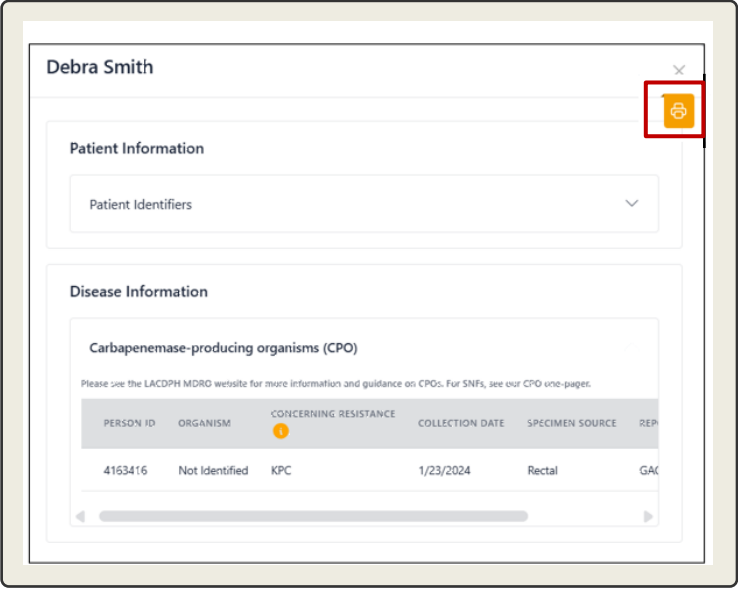
Read the patient’s actual result

The icon itself does not mean resistance was identified. Check the value shown in the patient’s row (for example, NA or a listed resistance marker).

The “!” explains the field the patient’s result is shown in the row.

Print or Save a Copy of the Record

One button turns the record into a document you can save or print



Debra Smith

Patient Information

Patient Identifiers

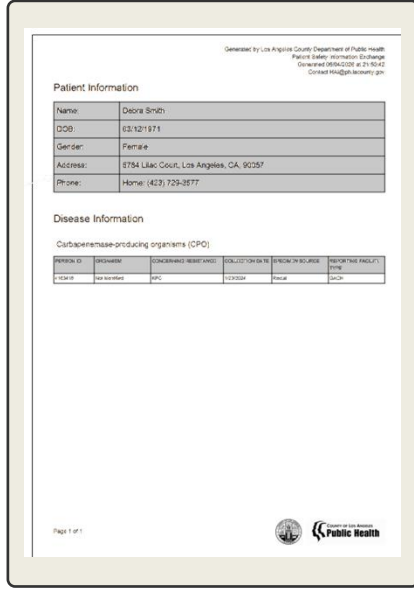
Disease Information

Carbapenemase-producing organisms (CPO)

Please see the LACDPH MDRO website for more information and guidance on CPOs. For SNFs, see our CPO one-pager.

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REPORTING FACILITY
4163416	Not Identified	KPC	1/23/2024	Rectal	GAC

Select the print icon in the upper-right corner of the record

Generated by Los Angeles County Department of Public Health
Patient Safety Information Exchange
Generated 06/04/2024 at 21:10:42
Contact: mdph@laphd.org

Patient Information

Name:	Debra Smith
DOB:	02/12/1971
Gender:	Female
Address:	8784 Liliac Court, Los Angeles, CA 90257
Phone:	Home: (424) 729-3877

Disease Information

Carbapenemase-producing organisms (CPO)

PERSON ID	ORGANISM	CONCERNING RESISTANCE	COLLECTION DATE	SPECIMEN SOURCE	REPORTING FACILITY
4163416	Not Identified	KPC	1/23/2024	Rectal	GAC

Page 1 of 1

Los Angeles County Department of Public Health

The generated document

WHAT THE DOCUMENT CONTAINS

Patient Information

Name, date of birth, gender, address and phone.

Disease Information

Every result, grouped by organism class, with all columns visible.

Document header

includes the date, time and the LACDPH contact information.

This document contains patient information. Handle and store it according to your facility policy.



PSIE Alerts

Admission Match



Alert Email



Review in PSIE



Action



Acknowledge

The Alert Email

What lands in your inbox and what it does not contain



WHAT THE EMAIL DOES

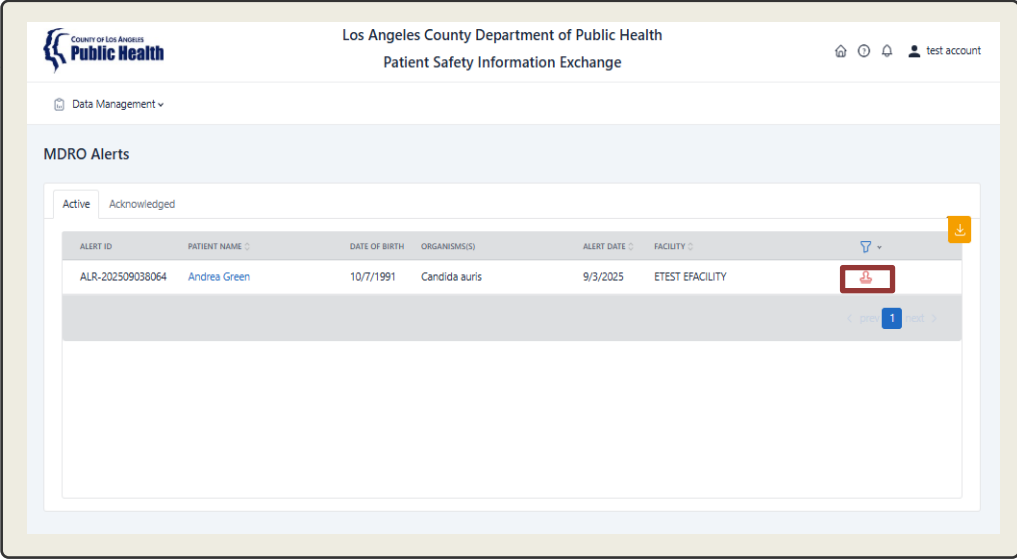
- 1 **Tells you an alert exists**
No patient name or MDRO details appear in the email.
- 2 **Goes to the whole facility**
All PSIE users registered at the admitting facility receive the notification.
- 3 **Links you into PSIE**
Follow the link and log in to view the alert details.

Includes an alert reference number

When contacting PSIE about a specific alert, include the ALR number. It identifies the alert without sending patient information by email.

The email notifies you of an alert. Opening the email does not acknowledge the alert in PSIE.

Reviewing an Alert in PSIE



Los Angeles County Department of Public Health
Patient Safety Information Exchange

Data Management ▾

MDRO Alerts

Active Acknowledged

ALERT ID	PATIENT NAME	DATE OF BIRTH	ORGANISM(S)	ALERT DATE	FACILITY
ALR-202509038064	Andres Green	10/7/1991	Candida auris	9/3/2025	ETEST EFACILITY

1

WHAT THE COLUMNS SHOW

Alert ID · Patient name · Date of birth · Organism · Admit date · Admitting facility

THE ALERT LIST

Active tab

Alerts awaiting your review and acknowledgment.

Acknowledged tab

Completed alerts. Responses remain editable for 60 days.

Select the patient name

Select the patient name to open the admission information and acknowledgment questions.

Export the alert list from PSIE

Take the list out of PSIE for your own tracking

1. Select the download icon at the right of the alerts table

Active Acknowledged

ALERT ID	PATIENT NAME	DATE OF BIRTH	ORGANISM(S)	ALERT DATE	FACILITY	
ALR-202509038064	Andrea Green	10/7/1991	Candida auris	9/3/2025	ETEST EFACILITY	

< prev 1 next >

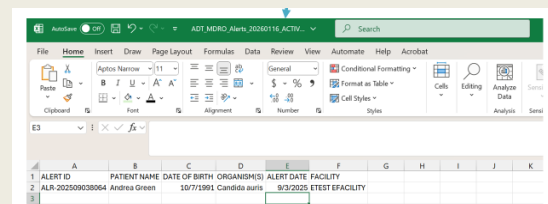
WHAT THE FILE CONTAINS

Alert ID · patient name · date of birth · organism · alert date · facility

One row per alert, making the file useful as a line list for tracking or outbreak review.

The file contains patient information. Store it according to your facility policy.

2. The file downloads as a CSV and can be opened in Excel



	A	B	C	D	E	F	G	H	I	J	K
1	ALERT ID	PATIENT NAME	DATE OF BIRTH	ORGANISM(S)	ALERT DATE	FACILITY					
2	ALR-202509038064	Andrea Green	10/7/1991	Candida auris	9/3/2025	ETEST EFACILITY					

The exported file, opened in Excel

Acknowledging an Alert

Complete every acknowledgement to the best of your knowledge

Active Acknowledged								
ALERT ID	PATIENT NAME	DATE OF BIRTH	ORGANISMS(S)	ALERT DATE	FACILITY			
ALR-202509038064	Andrea Green	10/7/1991	Candida auris	9/3/2025	ETEST EFACILITY			

THE QUESTIONS

- Was the patient admitted as an inpatient?
- Is this the correct patient?
- Were you aware of this MDRO before the alert?
- Was the patient previously positive at this facility?
- Was it communicated by the other facility?
- Were appropriate transmission-based precautions placed?

HOW IT WORKS

Reminder at one week

Unacknowledged alerts trigger a reminder email.

Editable for 60 days

Answers can be revised after you submit them.

Acknowledging every alert helps us evaluate and improve PSIE.
Please acknowledge each alert, even if no action was needed.

Patient Admission Information

Admitted as inpatient?

☐ Yes ☐ No

Correct patient?

☐ Yes ☐ No ☐ Unknown

Were you aware of this MDRO prior to the alert?

☐ Yes ☐ No ☐ Unknown

Previously positive at this facility?

☐ Yes ☐ No ☐ Unknown

Communicated by other facility?

☐ Yes ☐ No ☐ Unknown

Placed on appropriate Transmission-Based Precautions (TBP)?

Select

Acknowledge

Acknowledging Alerts: TBP Response Options

Select the response that best reflects the patient's TBP status for this admission.

Patient Admission Information

Admitted as inpatient?

☐ Yes ☐ No

Correct patient?

☐ Yes ☐ No ☐ Unknown

Were you aware of this MDRO prior to the alert?

☐ Yes ☐ No ☐ Unknown

Previously positive at this facility?

☐ Yes ☐ No ☐ Unknown

Communicated by other facility?

☐ Yes ☐ No ☐ Unknown

Placed on appropriate Transmission-Based Precautions (TBP)?

Select

Acknowledge

TBP RESPONSE OPTIONS

Dropdown options appear when you select the TBP field.

Select

- Yes, we were aware of this MDRO upon admission and placed on TBP
- Yes, we placed this patient on TBP upon admission for a different organism
- Yes, we suspected this patient for MDRO upon admission so placed on empiric TBP while awaiting test results
- Yes, we suspected this patient to be high-risk for MDRO upon admission so placed on enhanced barrier/standard precautions (f
- Yes, we became aware of this MDRO after admission and placed the patient on TBP
- No, we were not aware of this MDRO upon admission but will place them on TBP shortly
- Discharged and will note in the patient's record for future admission
- Unknown

Acknowledgment: When Information Is Unknown

HOW TO ANSWER THE ACKNOWLEDGMENT QUESTIONS

Answer each acknowledgment question based on the information available to your facility at the time. If you cannot determine the answer from your records or available information, select Unknown rather than guessing.

1

Answer to the best of your knowledge

Use the information available in your facility records.

2

Select Unknown when you cannot determine the answer

If the information is not available in your records, choose Unknown rather than guessing.

3

Each alert only needs one acknowledgment

One registered PSIE user at the facility can complete the acknowledgment for the alert.

4

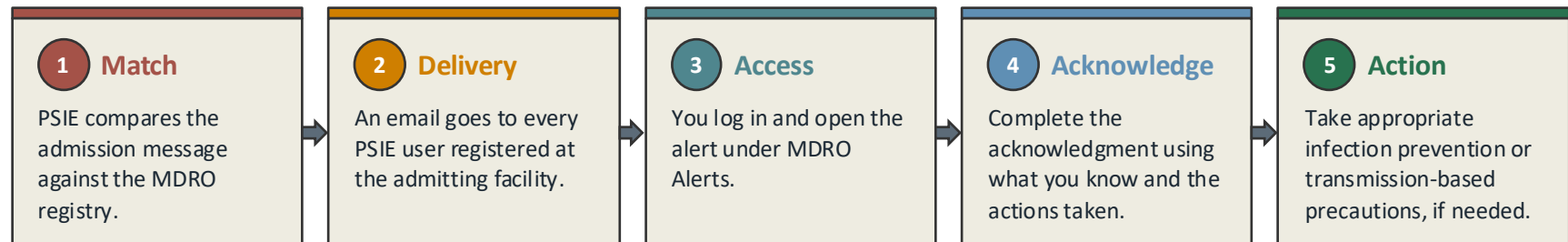
You can revise the answers later

Acknowledgment responses remain editable for up to 60 days if better information becomes available.

Do not guess. When the information is unavailable, Unknown is an appropriate response.
Acknowledging every alert helps us evaluate and improve PSIE. Please acknowledge each alert, even if no action was needed.

The Life of an Alert

From admission message to precautions at the bedside



HOW THE MATCH IS MADE

First name • last name • date of birth

These three identifiers on the admission message are compared against the registry. A name recorded differently between facilities can prevent a match, which is why Case Search allows partial spellings.

Don't skip Stage 3. Reading the email is not the same as opening the alert in PSIE.

TWO ROUTES TO YOUR ALERTS

The PSIE landing page Select MDRO Alerts from the component list.

The Data Management tab Reach MDRO Alerts from the menu at the top of any screen.

PARTNERS PROVIDING THE ADMISSION MESSAGES



PointClickCare

What to do after receiving a PSIE alert? Review the patient's MDRO history. Apply appropriate transmission-based precautions, if needed. Add relevant result(s) to the health record. Complete the acknowledgment in PSIE. Communicate MDRO status during future transfers.



Resources and Contacts

Where to find guidance and who to contact

For the guides

PSIE.ph.lacounty.gov

- HCF User Guide
- Quick Start Guide
- Overview for Healthcare Facilities

For PSIE support

PSIE@ph.lacounty.gov

- Registration forms and account requests
- Login or Microsoft Authenticator Issues
- Questions about alerts, including its ALR number
- Facility not receiving alerts

ALSO AVAILABLE

DPH PSIE Website

<http://publichealth.lacounty.gov/acd/patientsafetyinformationexchange/>

DPH ACDC MDRO Website

<http://publichealth.lacounty.gov/acd/MDRO/>

Guidance is also linked from each patient record. Organism-specific guidance and SNF one-pagers are available directly from the record.

Questions? PSIE@ph.lacounty.gov. Anything we cannot answer today, we will follow up on.
You can always email **SNF@ph.lacounty.gov** with any MDRO-related questions.

Acknowledgements

PSIE was built with the facilities, committees and partners below

Healthcare facilities

- HCF Focus Groups
- HAI-AR Committee
- Release I Pilot Sites
- Release II Pilot Sites
- Release I PSIE Users

Public health partners



Health jurisdictions and the PSIE program

Technology partners



PointClickCare

Carrying admission messages to PSIE

Thank you. Questions and account requests: PSIE@ph.lacounty.gov



Questions & Answers

Questions



Resources



Support



Follow-up

PSIE@ph.lacounty.gov