

COVID-19 Chicago Long Term Care Roundtable

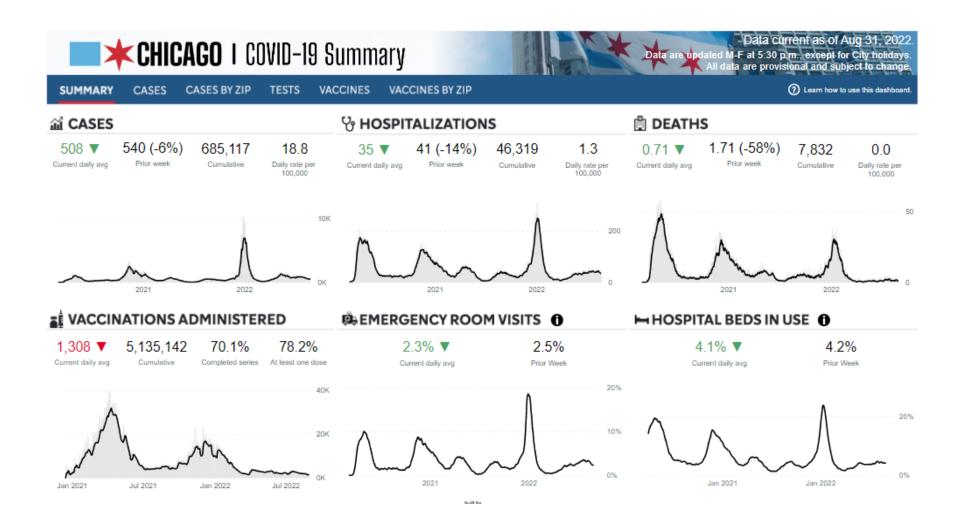
09-01-2022



- COVID-19 Epidemiology
- COVID Reminders, Updates, and FAQs
- Carbapenem-resistant Enterobacterales (CRE)
- Questions & Answers

Chicago Dashboard



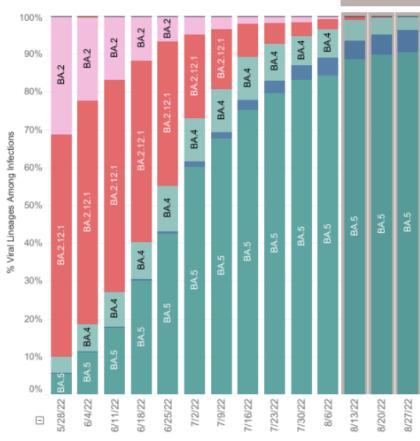


COVID-19 Variant Proportions



HHS Region 5: 5/22/2022 - 8/27/2022

HHS Region 5: 8/21/2022 - 8/27/2022 NOWCAST



Region 5 - Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin

| WHO label | Lineage # | US Class | %Total | 95%PI | |
|-----------|-----------|----------|--------|------------|--|
| Omicron | BA.5 | VOC | 90.3% | 89.0-91.5% | |
| | BA.4.6 | VOC | 5.9% | 4.8-7.4% | |
| | BA.4 | VOC | 3.5% | 3.1-3.8% | |
| | BA.2.12.1 | VOC | 0.3% | 0.2-0.3% | |
| | BA.2 | VOC | 0.0% | 0.0-0.0% | |
| | B.1.1.529 | VOC | 0.0% | 0.0-0.0% | |
| Delta | B.1.617.2 | VBM | 0.0% | 0.0-0.0% | |
| Other | Other* | | 0.0% | 0.0-0.0% | |

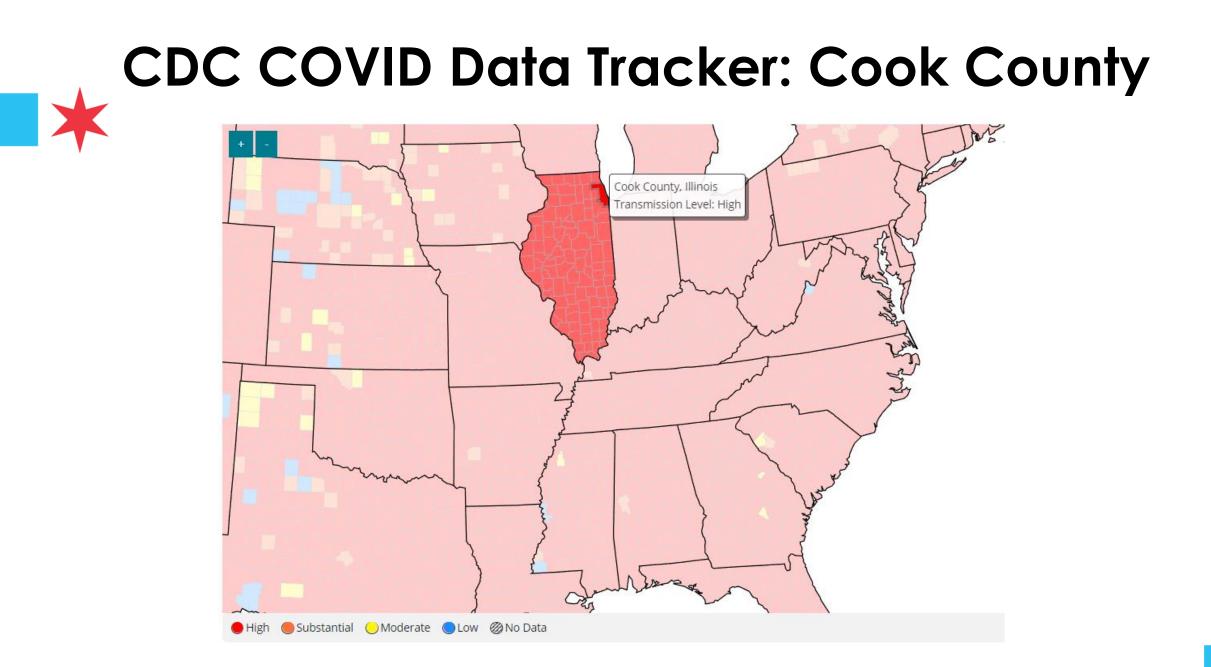
* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

 ** These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates
 # AY.1-AY.133 and their sublineages are aggregated with B.1.617.2.
 BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are

aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages) are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region. Except BA.2.12.1, BA.2 sublineages are aggregated with BA.2. Except BA.4.6, sublineages of BA.4 are aggregated to BA.4. Sublineages of BA.5 are aggregated to BA.5.

Reminder: CDC COVID Data Tracker

| Indicator - If the two indicators suggest different transmission levels, the higher level is selected | Low Transmission Blue | Moderate Transmission Yellow | Substantial Transmission Orange | High Transmission Red |
|---|-----------------------------|------------------------------------|---------------------------------------|-----------------------------|
| Total new cases per 100,000 persons in the past 7 days | 0-9.99 | 10-49.99 | 50-99.99 | ≥100 |
| Percentage of NAATs ¹ that are positive during the past 7 days | 0-4.99% | 5-7.99% | 8-9.99% | ≥10.0% |

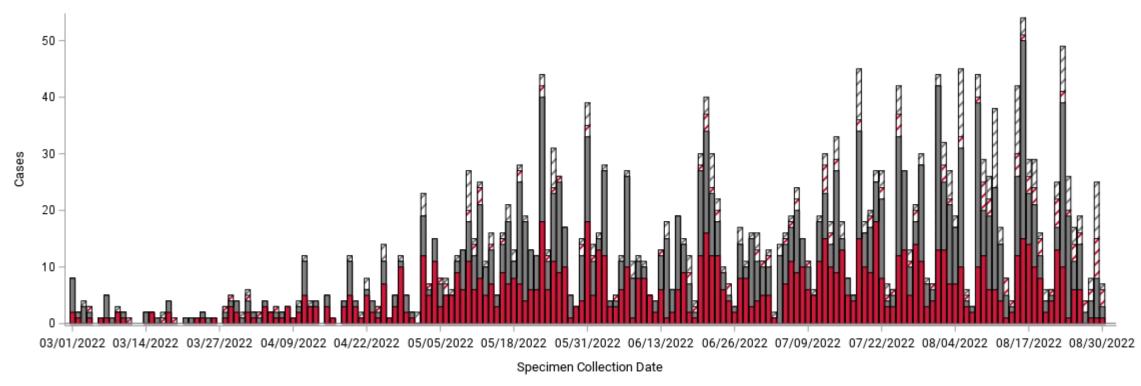


59 (75%) SNFs

have active

outbreaks

Small Increase in Incidence of Skilled Nursing Home Cases (Mar. 1, 2022 – Aug 31, 2022)



Not Fully Vaccinated Resident 🗾 Not Fully Vaccinated Staff 🗉 Fully Vaccinated Resident 🔳 Fully Vaccinated Staff

Data Sources: INEDSS (Illinois state) and REDCap (facility self report)

A fully vaccinated case occurs when the positive test specimen was collected at least 14 days after the individual completed their COVID vaccination

Fully vaccinated cases may be underestimated due to delayed reporting

Reminder: Minimum Routine <u>Staff</u> Testing Frequency

| Vaccination Status | Community Transmission Level | Testing Frequency |
|--------------------|---------------------------------|------------------------------|
| | High | 2x a week |
| Not up to data* | Substantial | 2x a week |
| Not up to date* | Moderate | 1x a week |
| | Low | No required routine testing* |
| Up to date | A11 | No required routine testing* |

Based on Illinois Executive Order and related Emergency Rules

* An individual has not received all COVID-19 vaccinations for which they are eligible

** Unless symptomatic, had a high-risk exposure, or your facility is in outbreak and performing unit/broad-based testing.

Reminder: Minimum Routine <u>Resident</u> Testing Frequency

| Vaccination Status | Community Transmission Level | Routine Testing Frequency |
|--|------------------------------------|--|
| Unvaccinated* | A11 | No required routine testing** |
| Partially vaccinated* | A11 | No required routine testing** |
| Vaccinated but not up to date* | A11 | No required routine testing** |
| Up to date* | A11 | No required routine testing** |
| New and readmissions, regardless of vaccination status | Low & Moderate | No required routine testing** |
| New and readmissions, regardless of vaccination status | Substantial & High | Must be tested upon admission (unless tested within the 72 hours prior to admission) <u>and</u> at 5-7 days post- admission |

*Excluding new/readmissions when community transmission is substantial or high **Unless symptomatic, had a high-risk exposure, or your facility is in outbreak and performing broad-based testing.

FAQ: I heard there is a new type of COVID-19 vaccine coming out soon. Is that true?

- Yes, the FDA gave emergency use authorization (EUA) for a new bivalent COVID-19 vaccine on August 31, 2022.
- Next step is for the Advisory Committee on Immunization Practices (ACIP)/CDC to provide an official recommendation before administration can begin.
 - ACIP meeting is scheduled for today (September 1st) and tomorrow (September 2nd)



- The updated vaccine is called a "bivalent booster"
 - It is a mix of two versions of the vaccine and will boost protection against the original coronavirus strain as well as protecting against the currently circulating omicron subvariants (BA.4 & BA.5).
- Will be a single shot.
- Must have completed at least the primary series.
- Minimum spacing is two months after the previous shot.
- Those aged 12+ (for Pfizer) and 18+ (for Moderna) will be eligible for the vaccine once approved.



- Doses will be limited upon initial rollout, but long-term care facility residents are a priority group.
 - Assuming ACIP/CDC recommends the vaccine, rollout should start within the next week.
- TBD whether the bivalent booster will be included in the "up to date" definition.
- Please connect with your pharmacy or vaccine provider ASAP to discuss logistics.





Poll Question 1

Our facility has had a recent case (within the last 14 days), so we are currently in outbreak. We do not ask our vendors/providers for proof of negative test before entering the facility. Should we be asking this information?

A. Yes B. No



Yes!

If a facility has had a case within the last 14 days (in outbreak), they should require proof of negative test from vendors and external providers at the same frequency of HCP at the facility.

Poll Question 2

Our facility has one level. We want to be extra careful about COVID-19. All staff wear full PPE (including gowns and gloves) even when we aren't having interactions with residents or conducting patient care. This is ok, right?

> A. Yes B. No



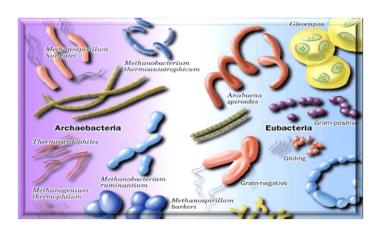
No!

Regardless of the layout of your facility, gowns and gloves should only be worn when providing care to residents as indicated. Gowns and gloves should not be worn when resident care is not being performed. This includes areas like the nursing station, walking the halls, etc. Additionally, gloves and gowns should never be reused, except for disposable gowns that are laundered in between uses. Extended use (i.e., wearing the same gown from room to room) is also not permitted.



Can portable room air cleaners improve room ventilation to decrease the risk of COVID-19 transmission?

A. Yes B. No





Yes!

Yes, using portable room air cleaners with a high efficiency particulate air (HEPA) filter can enhance air cleaning. They reduce the airborne concentrations and reduce the risk that residents, visitors, and HCP come in contact with viral particles Air cleaners need to have the appropriate CADR (Clean Air Delivery Rate) rating for the room size.



We had an up-to-date resident go out on pass for the weekend with his family. Do we need to test him when he gets back?

A. Yes B. No



Yes!

This resident would be considered equivalent to a readmission since they were out of the building for >24 hours. As Cook County is currently experiencing high transmission, the resident must be tested upon readmission and 5-7 days later. Since the resident is up to date, they do not need to be quarantined upon return.

Carbapenem-Resistant Enterobacterales (CRE) Reporting Requirements:

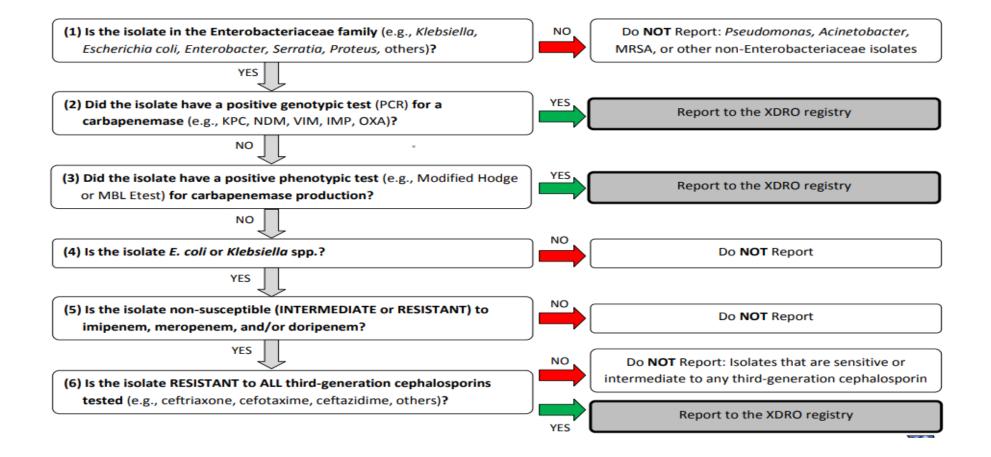
- CRE are Enterobacterales (e.g., E. coli, Klebsiella species, Enterobacter species, Proteus species, Citrobacter species, Serratia species, Morganella species or Providentia species) with one of the following test results:
- (1) a molecular test, such as PCR, specific for carbapenemase, or
- (2) a phenotypic test, such as Modified Hodge Test, specific for carbapenemase production, or

(3) Susceptibility test (for E. coli and Klebsiella species only): any isolate that is non-susceptible to one of the carbapenems (doripenem, meropenem, or imipenem) and resistant to all third generation cephalosporins tested (ceftriaxone, cefotaxime, and ceftazidime).

 Facilities should report the first CRE event per patient per healthcare facility encounter. (Note: if a CRE-positive patient is reported to the registry, discharged and then readmitted at a later date with a new CRE-positive culture, that new CRE culture should be reported to the XDRO registry because it is the first CRE event of the new patient encounter.)



Report Carbapenem-Resistant Enterobacteriaceae (CRE) isolates to the XDRO registry





Example 1:

| NTIMICROBIC | MIC (pg/mL) | INTERPRETATION |
|-------------------------------|-------------|----------------|
| Amikacin | <=1 | s |
| Ampicillin | >32 | R |
| Aztreonam | 64 | R |
| Cerazolin | >8 | R |
| Cefepime | >32 | R |
| Cefotaxime | >64 | R |
| Cefotaxime-clayulanic acid** | >32 | |
| CefoxItin | >16 | R |
| Ceftazidime | >128 | R |
| Ceftazidime-clavulanic acid** | >64 | |
| Celtriaxone | >32 | R |
| Chloramphenicol | 8 | S |
| Iprofloxacin | >8 | R |
| Colistin | 0.5 | |
| Portpenem | >8 | R |
| rtapenem | >8 | R |
| Sentamicin | <=0.25 | S |
| mipenem | 6 | R |
| avofloxacin | >8 | R |
| leropenem | >8 | R |
| iperacillin-tazobactam | >128/4 | R |
| olymyxin B | 0.5 | |
| etracycline | >32 | R |
| igecycline | <=0.5 | 5 |
| obramycin | <=0.5 | s |
| rimethoprim-sulfamethoxazole | >8/152 | R |



Suspected Agent: Escherichia coli

| ANTIMICROBIC | MIC (ug/mL) | INTERPRETATION | |
|-------------------------------|-------------|----------------|----------------|
| Amikacin | <=1 | S | |
| Amploillin | >32 | R | |
| Aztreonam | 64 | R | |
| Cefazolin | >8 | 8 | |
| Cefepime | >32 | R | |
| Cefotaxime | >64 | R | |
| Cefotaxime-clavulanic acid** | >32 | | |
| Cefoxitin | >16 | R | |
| Ceftazidime | >128 | R | |
| Ceftazidime-clavulanic acid** | >64 | | |
| Celtriaxone | >32 | R | |
| Chloramphenicol | 8 | S | |
| Clprofloxacin | >8 | R | |
| Colistin | 0.5 | | |
| Dorlpenem | >8 | R | |
| Ercapenem | >8 | R | |
| Gentamicin | <=0.25 | s | |
| Imipenem | 6 | R | |
| Lavonoxacin | >8 | R | |
| Meropenem | >8 | R | |
| Piperacillin-tazobactam | >128/4 | R | |
| Polymyxin B | 0.5 | | |
| Tetracycline | >32 | R | |
| Tigecycline | <=0.5 | 5 | |
| Tobramycin | <=0.5 | S | Report to XDRO |
| Trimethoprim-sulfamethoxazole | >8/152 | R | |

https://www.xdro.org/img/Reporting_Requirements_for_XDRO.pdf



| 1. KLEBSIELLA PNEUMONIAE URN NEG PANEL 1 Ent: | 06/11-0156 IN | IFCE | | |
|--|--|--|----|----|
| Target Route Dose | RX AB | Cost M.I.C. | IQ | NP |
| AMOXICILLIN/CLA | S | <=2 | | |
| AMPICILLIN | R | 16 | | |
| AMPICILLIN/SULB | S | 4 | | |
| CEFTRIAXONE | S | <=1 | | |
| CEFEPIME | S | <=1 | | |
| CEFAZOLIN | NR | <=4 | | |
| CIPROFLOXACIN ERTAPENEM GENTAMICIN IMIPENEM LEVOFLOXACIN NITROFURANTOIN PIPERACILLIN/TA TOBRAMYCIN TRIMETHOPRIM/SU | <u>S</u> S S S S S S S S | <=0.25 <=0.5 <=1 <=0.25 <=0.12 64 <=4 <=1 <=20 | | |



| 1. KLEBSIELLA PNEUMONIAE URN NEG PANEL 1 Ent: | 06/11-0156 I | NFCE Cost M.I.C. | IO | NP |
|---|--------------|---------------------|----|----|
| AMOXICILLIN/CLA | s s | <=2 | | |
| AMPICILLIN | R | 16 | | |
| AMPICILLIN/SULB | S | 4 | | |
| CEFTRIAXONE | S | <=1 | | |
| CEFEPIME | S | <=1 | | |
| CEFAZOLIN | NR | <=4 | | |
| CIPROFLOXACIN | S | <=0.25 | | |
| ERTAPENEM | S | <=0.5 <=1 | | |
| GENTAMICIN IMIPENEM | S | <=0.25 | | |
| LEVOFLOXACIN | S | <=0.12 | | |
| NITROFURANTOIN | I | 64 | | |
| PIPERACILLIN/TA | S | <=4 <=1 | | |
| TOBRAMYCIN TRIMETHOPRIM/SU | S | <=20 | | |





| NO TA MARA Y MARAZINA ANA ANA ANA ANA ANA ANA ANA ANA ANA | |
|--|--|
| 1. KLEBSTELLA PNEUMONTAE AEA NEG PANEL 1 | Ent: 05/20-1256 INECE |
| | |
| Target Route Dose | <u>RX</u> <u>AB</u> <u>Cost</u> <u>M.I.C.</u> <u>IQ</u> <u>NP</u> |
| AMOXICILLIN/CLA | s<<=2 |
| AMPICILLIN | <u>R</u> |
| AMPICILLIN/SULB | 8 |
| CEFTRIAXONE | 말랐다. 그는 영화보다 수비가 사람은 집에 앉았다. 것 것 |
| CEFEPIME | S <=1 |
| CEFAZOLIN | 2.41.2 🚾 - 2.2.3 an 🛹 an an 2.2.2.2 an |
| For infections other than u | incomplicated UTI |
| | ioniae or P. mirabilis: |
| Cefazolin is resistant if N | MC > or = 8 mcn/ml |
| | |
| (Distinguishing susceptible | |
| for isolates with MIC < or | 4 Incg/Inc Feducies contraction of the state of the state |
| additional testing.) | 이는 바람이 있는 것은 것은 것은 것이 같은 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 것이 있는 것이 없는 것이 있는 것이 없는 것이 않는 것이 없는 것이 있 않는 것이 없는 것이 없 것이 없는 것이 없 않이 |
| CIPROFLOXACIN | <u>s</u> <=0.25 |
| COMPARENTAPENEM | 25 - 215 S |
| GENTAMICIN | <=1 |
| IMIPENEM | - 이번 가 Salar - 이번 가 : <=0, 25, - 이번 사람 - Salar |
| LEVOFLOXACIN | S <=0.12 |
| PIPERACILLIN/TA | 성화했다. 아파파파 ~4 전도 한 화가 같은 것이 같이다. |
| TOBRAMYCIN | S <=1 |
| TRIMETHOPRIM/SU | 37:11 · · · · · · · · · · · · · · · · · · |
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|---|---|
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| Target Route [| 그렇게 잘 잘 하는 것 같아요. 이는 것 것 같아요. 이는 것 같아요. 이는 것 같아요. 이는 것 같아요. 아파가 가지 수가 있는 것 같아요. 그는 것 같아요. 이는 것 않아요. 이는 이는 것 않아요. 이는 것 않아. |
| AMOXICILLIN/CLA | s <=2 |
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| AMPICILLIN/SULB | Barren ander einer eine State ander einer eine State ander einer einer einer einer einer einer einer einer eine |
| CEFTRIAXONE | 경향학원 가슴 과상에 영광연합동 독일 비사가 여기억적 파가 가고 |
| CEFEPIME CEFAZOLIN | na na sana sa |
| | other than uncomplicated UTI |
| | oli, K. pneumoniae or P. mirabilis: |
| Cefazolin is r | esistant if MIC > or = 8 mcg/mL. |
| (Distinguishir | g susceptible versus intermediate |
| | ith MIC < or = 4 mcg/mL requires |
| additional tes | ting.) and a set of the |
| CIPROFLOXACIN | S |
| ERTAPENEM | 2844-1922-1923 <mark>5</mark> 2003 2013 5-0.5 2012 403 2666 2023 |
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| IMIPENEM LEVOFLOXACIN | Sector #300 5 25 45 45 25 20 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| PIPERACILLIN/TA | |
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| TRIMETHOPRIM/SU | 말한 2월 일 전 19월 19일 - 19일 전 19일 전 2월 37일 19일 2월 2 일 전 19일 |
| Schernforst Frankrike and Scherke 28,300, 1977 (2010) 1000 (2010) 1773 | Mala A cabina ang ang ang ang ang ang ang ang ang a |





SPECIMEN DESCRIPTION: BLOOD GRAM SMEAR: YEAST GRAM SMEAR: (CRITICAL/ALERT VALUE) GRAM SMEAR: CALLED TO, READ BACK AND CONFIRMED TO (RN) ON 11/6/18 AT 2347 BY CULTURE: CANDIDA AURIS NOTE; CULTURE: implement contact precautions as soon as possible per infection prevention policy. CULTURE: this susceptibility report provides only quantitative mic results, there are no CULTURE: clsi criteria for interpretation. CULTURE: CALLED TO, READ BACK AND CONFIRMED [CANDIDA AURIS] BY CULTURE: RN) AT 2015 ON 11/8/18 TO FML9240. REPORT STATUS: FINAL 11/11/2018



SPECIMEN DESCRIPTION: BLOOD GRAM SMEAR: YEAST GRAM SMEAR: (CRITICAL/ALERT VALUE) GRAM SMEAR: CALLED TO, READ BACK AND CONFIRMED TO (RN) ON 11/6/18 AT 2347 BY CULTURE: CANDIDA AURIS NOTE: CULTURE: implement contact precautions as soon as possible per infection prevention policy. CULTURE: this susceptibility report provides only quantitative mic results. there are no CULTURE: clsi criteria for interpretation. CULTURE: CALLED TO, READ BACK AND CONFIRMED [CANDIDA AURIS] BY CULTURE: RN) AT 2015 ON 11/8/18 TO FML9240. REPORT STATUS: FINAL 11/11/2018





 Patient had a CRE positive (meeting the reporting requirement) urine culture on 06/27

add to XDRO

• Patient had a CRE positive (meeting the reporting requirement) urine culture on 06/28:

no need to add to XDRO

• The patient was discharged and re-admitted on 07/01 and had another CRE positive culture on new admission

add to XDRO



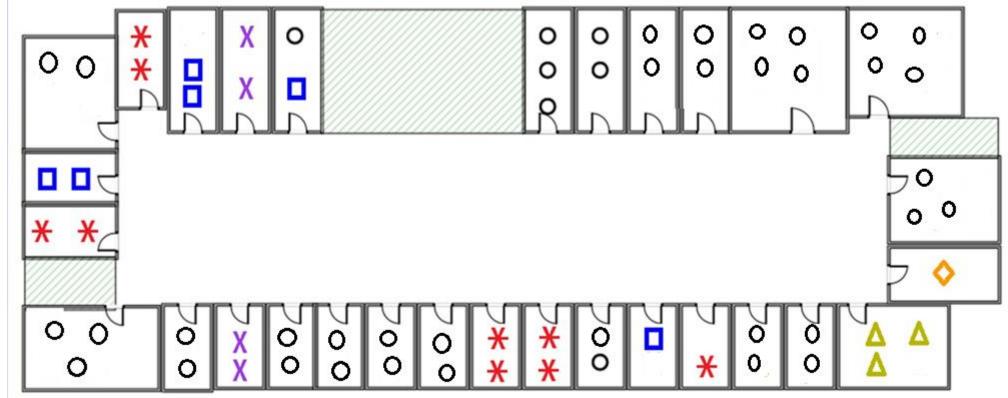
- A patient is admitted to your facility with an unknown status:
- ✓Query XDRO: Previous record of CRE from 2019 : place the patient on isolation precautions.
- ✓If subsequent positive cultures are identified on this encounter add them to XDRO (1st CRE event per patient per healthcare facility encounter).
- ✓If there was molecular testing done and a mechanism is identified that also needs to be added to XDRO.

Cohorting Multi drug resistant organisms

• Can you cohort a CRE KPC with a CRE NDM?

• Can you cohort a Candida auris with CRE?





X C. auris positive
 ★ C. auris, and KPC-CPO
 ■ KPC-CPO

C. auris, KPC-CPO, NDM-CPO
 C. auris, KPC-CPO, VIM-CPO
 O No known CPO or *C. auris*



Questions & Answers

A special thanks to:

CDPH HAI SNF Team:

Dr. Stephanie Black Shannon Xydis Hira Adil Liz Shane Winter Viverette Stephanie Villarreal Kelly Walblay Dan Galanto Christy Zelinski Anudeep Dharkar Nisreen Droubi Leirah Jordan Matthew Mondlock Brittney Pitchford Tasa Procter Michelle Gardner

For additional resources and upcoming events, please visit the CDPH LTCF HAN page at: https://www.chicagohan.org/covid-19/LTCF