

Report No Antimicrobial Resistant (AR) Events

Description

This document reviews the process of reporting No Antimicrobial Resistance (AR) events and reviewing the AR Option Summary line list to confirm reporting.

When a facility's reporting plan includes FacWideIN AR for a given month and the facility uploads AR summary data for that month (patient days and admissions), but does not upload inpatient AR events, the application will generate a Missing AR Event alert. When reviewing the alert, the facility can click the "Report No Events" box to indicate they have zero inpatient AR events to report for that specific month. Clicking the "Report No Events" box verifies that this is in fact a "true zero" for the month and the facility had no events that met the AR Option reporting criteria. If the facility identified inpatient AR events for that month, the facility should upload those events to clear the Missing AR Event alert.

Please note that the NHSN application does not currently accept AR summary data for outpatient locations (Emergency Department, Pediatric Emergency Department, 24-Hour Observation Unit). The upload of AR events for these outpatient location types has no impact on the Missing AR Events alert.

Data accuracy and completeness are essential for AR surveillance. In addition to the Missing AR Event alert on the alerts screen, the facility can also view the AR Summary data line list for ongoing data quality assurance. This report now includes the "No AR events" variable. For detailed information on additional AR data validation, review our guide here: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-validation-508.pdf>.

Example

Suppose you're reviewing AR Summary Data from a six-month period from the fourth quarter of 2018 to the first quarter of 2019. You want to know if there are any months where you did not upload AR events into NHSN.

Review the Monthly Reporting Plan

First review the monthly reporting plan for the six-month time period to verify you had a reporting plan in place for each month.

1. Click Reporting Plan > Find
2. Select the month and year for the AR data submission.
3. Scroll down to the "Antimicrobial Use and Resistance Module" section of the plan.

Ensure you have the Antimicrobial Resistance box checked next to FacWideIN for all months you're reviewing.

Antimicrobial Use and Resistance Module			
	Locations	Antimicrobial Use	Antimicrobial Resistance
	FACWIDEIN - Facility-wide Inpatient (FacWIDEIn)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	5GPED - PED MED_SURG - AU	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	PMICU - PED MICU_AU	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	SURGWARD - SURGICAL WARD - AU	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	EMER - EMERGENCY ROOM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	24HROBS - 24-HR OBS.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



View Missing Event Alerts for AR

Once you've confirmed you've listed FacWideIN AR Option reporting in each reporting plan, you'll review your alerts.

1. Navigate to the Alerts screen
2. Choose the "Missing Events" alerts button to view all missing event alerts.

Months will show up here with the event type/Pathogen "AR Event" when the month is part of your reporting plan, you've entered AR summary data for the month, but have not entered any AR events. If you've reported AR events for a specific month, the month will not appear on this report.

When viewing the missing event alerts, you note that NHSN lists both December 2018 and January 2019 as having summary data but no AR events (see below screenshot). Review these months in your vendor software to confirm whether these are "true zeros" or whether you need to upload reportable AR events.

After reviewing your AR data, you confirm with your stewardship team that the facility had no AR events in December 2018. However, your facility did have eligible isolates to report as AR events in January 2019.

Location	CDC Location	Month/Year	Alert Type	Event Type/Pathogen	Summary Data Form Type	Report No Events
FACWIDEIN	FACWIDEIN	12/2018	Summary but no events	AR Event	AR Summary	<input checked="" type="checkbox"/>
FACWIDEIN	FACWIDEIN	01/2019	Summary but no events	AR Event	AR Summary	<input type="checkbox"/>
ICU-A	IN:ACUTE:CC:S	04/2015	Summary but no events	CAUTI	DA-ICU/Other	<input type="checkbox"/>

As shown in the above screenshot, first scroll to December 2018 select the "Report No Events" box next to this alert. Then click Save. Notice that when you save this change, this alert no longer appears for December 2018. Since you have eligible AR events to report for January 2019, do not check the "Report No Events" box and instead, work with your team to upload AR events from this time period.

Run the Line Listing for all AR Summary Data

For detailed information on how to modify the AR Summary line list, view the quick reference guide available here: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-qrg-denom-linelist-508.pdf>.

First generate new datasets. Review the AR Summary Line List to view the report no event variable value for all months of interest. Note that the noEventAR variable will equal "Y" to indicate the facility has checked the Report No Events box for FacWideIN on the Alert screen. The noEventAR variable will equal "N" to indicate the facility has reported inpatient AR Events. The noEventAR variable will be blank if there are no AR events reported and the facility has not yet confirmed that this is a true zero by checking the Report No Events box on the alert screen.

National Healthcare Safety Network Line Listing for All AR Summary Data

As of: November 11, 2019 at 9:57 AM
Date Range: All AR_SUMMARY

orgID	CCN	summaryYM	location	num PatDays	num Admissions	noEventAR
13860	999999	2018M10	FACWIDEIN	2469	432	N
13860	999999	2018M11	FACWIDEIN	3601	518	N
13860	999999	2018M12	FACWIDEIN	3200	487	Y
13860	999999	2019M01	FACWIDEIN	3601	446	
13860	999999	2019M02	FACWIDEIN	3779	517	N
13860	999999	2019M03	FACWIDEIN	3240	541	N

After selecting the "Report No Events" box for December 2018, the NoEventAR value is "Y", indicating that this is a true zero. The NoEventAR value for January 2019 will remain null (blank) until the facility uploads the AR events identified that month and generates datasets.

Additional Resources

Introduction to NHSN Analysis: <https://www.cdc.gov/nhsn/pdfs/training/2018/intro-to-analysis-508.pdf>

AUR Module Protocol: <http://www.cdc.gov/nhsn/pdfs/pscmanual/11pscacrurrent.pdf>

Surveillance for Antimicrobial Resistance Options: <http://www.cdc.gov/nhsn/acute-care-hospital/aur/>

AR Event Line List quick reference guide: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/AR-QRG-LineList.pdf>

AR Summary Line List quick reference guide: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-qrg-denom-linelist-508.pdf>

AR Option Data Validation: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/aur/ar-validation-508.pdf>