



DUKE
ANTIMICROBIAL
STEWARDSHIP
OUTREACH
NETWORK



antimicrobial stewardship assessment portal

Real World Testing Plan 2025

GENERAL INFORMATION

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| Plan Report ID Number | 20241004das |
| Developer Name | DASON (Duke Antimicrobial Stewardship Outreach Network) |
| Product Name | DASON ASAP |
| Version Number | 2 |
| Certified Health IT Product List (CHPL) ID | 15.05.05.3169.DASN.01.00.0.230920 |
| Developer Real World Testing Plan Page URL | https://dason.medicine.duke.edu/real-world-testing |

JUSTIFICATION FOR REAL WORLD TESTING APPROACH

DASON ASAP reports AUR data on behalf of member hospitals to NHSN in accordance with the ONC-certified criteria 170.315(f)(6) Transmission to public health agencies – antimicrobial use and resistance reporting. The testing approach will evaluate this objective by providing metrics for the total number of successful and failed AUR summaries and events that are submitted to NHSN throughout the year. 2025 is the first year that the Real World Testing plan is implemented for DASON ASAP, and our goal is to establish a baseline of metrics that can be used for future process improvement and testing enhancement.

STANDARDS VERSION ADVANCEMENT PROCESS (SVAP) STANDARDS UPDATES

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|---|--|
| Standard (and version) | 170.205(r)(1) HL7® CDA® R2 Implementation Guide: Healthcare Associated Infection (HAI) Reports, Release 3 - US Realm, December 2020 |
| Updated certification criteria and associated product | (f)(6) |
| Health IT Module CHPL ID | 15.05.05.3169.DASN.01.00.0.230920 |
| Method Used for Standard Update | SVAP |

| | |
|--|------------------|
| Date of ONC ACB notification | 9/19/2023 |
| Date of customer notification | Not applicable |
| Conformance method and measurement/metric(s) | Measures 2 and 3 |

MEASURES USED IN OVERALL APPROACH

Antimicrobial use and resistance reporting information transmitted to NHSN

- Measure 1 - Monthly and annual counts of successful and failed AU Summaries submitted to NHSN, original and revisions
- Measure 2 - Monthly and annual counts of successful and failed AR Events submitted to NHSN, original and revisions
- Measure 3 - Monthly and annual counts of successful and failed AR Summaries submitted to NHSN, original and revisions

Associated Certification Criteria

170.315(f)(6) Transmission to public health agencies – antimicrobial use and resistance reporting. No relied-upon software.

Justification for Selected Measurement/Metric

These counts provide information about the frequency of antimicrobial use and resistance reports transmitted to public health agencies, as well as their relative success/failure ratios.

Failure can occur for a variety of reasons, some of which may not indicate incorrect data – in many cases, this just requires a configuration change to re-import the data, either within DASON ASAP, or within NHSN itself. NHSN also does periodic data quality review, which may result in the need to revise and re-import data that had previously been accepted successfully. These are revisions, and their success/failure numbers will also be tabulated and reported.

As this is the first year of Real World Testing for DASON ASAP, our goal is to establish a baseline that can be used to improve overall success rate of reporting.

Test Methodology

Antimicrobial use and resistance data reported to NHSN in structured CDA files; the individual CDA files contain one AU or AR summary, or one AR Event. The individual CDA files can be bundled into a ZIP file for submission, and the submission can be manually imported into NHSN, or sent to NHSN via the DIRECT protocol. In both cases, when NHSN processes the submission, a structured submission report is generated which details whether each contained CDA passed or failed validation, along with any errors that occurred during validation.

When reporting via DIRECT, the resulting submission report is processed by DASON ASAP, and the results are linked to the individual summaries/events and stored in the system database. This information can be queried to generate the testing measures. Submission reports from manually imported submissions need to be manually reviewed to extract the relevant numbers. The Real World Testing results require collation of both DIRECT and manual reporting numbers. All (or the vast majority) of reporting in 2025 should be done by DIRECT reporting.

Care Settings

DASON Member Hospitals – DASON provides antimicrobial stewardship services to a network of mostly small and/or rural hospitals. As part of these services, DASON ASAP can report AU and AR data to NHSN on behalf of the member hospitals to implement the Public Health Registry Reporting measure of the Promoting Interoperability Program.

Expected Outcomes

These measures are expected to demonstrate that DASON ASAP can correctly and consistently report antimicrobial use and resistance data to NHSN in compliance with the NHSN AUR protocol.

SCHEDULE OF KEY MILESTONES

| Key Milestone | Care Setting | Date/Timeframe |
|--|------------------------|-----------------|
| Creation of scripts to collect reporting metrics | N/A | Q4 2024 |
| Reporting AUR data to NHSN | DASON Member Hospitals | Monthly, 2025 |
| Collection of reporting metrics | DASON Member Hospitals | Quarterly, 2025 |
| Build Real World Testing results report template | N/A | Q4 2025 |
| Collate metrics into Real World Testing results report | N/A | January, 2026 |
| Submit report to ONC-ACB | N/A | January, 2026 |
| Publish Real World Testing Results Report | N/A | Q1 2026 |

ATTESTATION

This Real World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in this plan is up to date and fully addresses the health IT developer’s Real World Testing requirements

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