

# NHSN Hospital Respiratory Data (HRD) Data Processing and Quality Assurance Reference Guide

Version 1

Updated: May 30, 2025

This guide provides detailed information regarding the processing, deduplication, data quality assurance, and aggregation steps applied to data submitted to NHSN's Hospital Respiratory Data (HRD) Module prior to inclusion in downstream internal and external products, including publication to CDC's public-facing webpages and dashboards.

## HRD Data Submission Pathways

As of November 1, 2024, all U.S. acute care and critical access hospitals are required to electronically report weekly information about COVID-19, influenza, respiratory syncytial virus (RSV), and hospital bed capacity to CDC's National Healthcare Safety Network (NHSN) in a standardized format and frequency specified by the HHS Secretary under the [Centers for Medicare & Medicaid \(CMS\) Conditions of Participation \(CoP\)](#). These data are submitted to CDC via NHSN Hospital Respiratory Data (HRD) module, located in the Patient Safety Component (PSC), through either the HRD Daily or the HRD Weekly Pathway. Users may choose which pathway they would like to use to submit their facility's data. Additionally, users may choose to report their facility's data using either the web form entry, CSV upload, or API direct upload.

## Front-End Specifications & Business Rules

Each reporting pathway and submission method requires certain NHSN front-end specifications be met when submitting and saving data, including specified data element formats, valid value ranges and response options, and business rules. Business rules are specified checks applied upon submission that flag and/or reject illogical data (e.g., reporting a greater number of adult inpatient beds than total inpatient beds) from being saved. The table below provides the list of data elements for which business rules are applied.

### Business Rules

Data Element Column Name	ID	Business Rule(s)
numInPtBeds	2a	Must be $\geq$ 2b. numInPtBedsAdult + 2c. numInPtBedsPed Must be $\geq$ 3a. numInPtBedsOcc
numInPtBedsAdult	2b	Must be $\leq$ 2a. numInPtBeds Must be $\geq$ 3b. numInPtBedsOccAdult
numInPtBedsPed	2c	Must be $\geq$ 5a. numICUBedsOcc (where 5a. numICUBedsOcc does not equal 9999) AND Must be $\geq$ (3b. numInPtBedsOccAdult + 3c. numInPtBedsOccPed)
numInPtBedsOcc	3a	Must be $\geq$ 5a. numICUBedsOcc (where 5a. numICUBedsOcc does not equal 9999) AND Must be $\geq$ (3b. numInPtBedsOccAdult + 3c. numInPtBedsOccPed)

numInPtBedsOccAdult	3b	Must be <= 3a. numInPtBedsOcc AND Must be >= 5b. numICUBedsOccAdult (where 5b. numICUBedsOccAdult does not equal 9999)
numInPtBedsOccPed	3c	Must be <= 3a. numInPtBedsOcc AND Must be >= 5c. numICUBedsOccPed (where 5c. numICUBedsOccPed does not equal 9999)
numICUBeds	4a	<i>If not equal to 9999:</i> Must be <= 2a. numInPtBeds AND Must be >= 4b. numICUBedsAdult (where 4b. numICUBedsAdult does NOT equal 9999) + 4c. numICUBedsPed (where 4c. numICUBedsPed does NOT equal 9999))) AND Must be >= 5a. numICUBedsOcc
numICUBedsAdult	4b	Must be 9999 if 4a. numICUBeds equals 9999 <i>If not equal to 9999:</i> Must be <= 4a. numICUBeds AND Must be >= 5b. numICUBedsOccAdult
numICUBedsPed	4c	Must be 9999 if 4a. numICUBeds equals 9999 <i>If not equal to 9999:</i> Must be <= 4a. numICUBeds AND Must be >= 5c. numICUBedsOccPed
numICUBedsOcc	5a	Must be 9999 if 4a. numICUBeds equals 9999 <i>If not equal to 9999:</i> Must be <= 3a. numInPtBedsOcc AND Must be >= 5b. numICUBedsOccAdult (where 5b. numICUBedsOccAdult does NOT equal 9999) + 5c. numICUBedsOccPed (where 5c. numICUBedsOccPed does NOT equal 9999)
numICUBedsOccAdult	5b	Must be 9999 if 4a. numICUBeds equals 9999 OR if 4b. numICUBedsAdult equals 9999 <i>If not equal to 9999:</i> Must be <= 5a. numICUBedsOcc
numICUBedsOccPed	5c	Must be 9999 if 4a. numICUBeds equals 9999 OR if 4c. numICUBedsPed equals 9999 <i>If not equal to 9999:</i> Must be <= 5a. numICUBedsOcc
numConfC19ICUPatsAdult	9a	Must be <= 6a. numConfC19HospPatsAdult
numConfC19ICUPatsPed	9b	Must be <= 6b. numConfC19HospPatsPed
numConfFluICUPatsAdult	10a	Must be <= 7a. numConfFluHospPatsAdult
numConfFluICUPatsPed	10b	Must be <= 7b. numConfFluHospPatsPed
numConfRSVICUPatsAdult	11a	Must be <= 8a. numConfRSVHospPatsAdult
numConfRSVICUPatsPed	11b	Must be <= 8b. numConfRSVHospPatsPed

When a user attempts to submit a record that fails one or more of these business rules, the submission will be rejected, and the user will receive a notification of the error. When submitting data via the web form, this notification will appear as a pop-up message with errors listed. When submitting data via CSV upload, this notification will appear as both a pop-up message and notification of errors will be sent to the email address associated with the submitting user's NHSN account. When submitting data via API upload, notification of errors will be sent to the email address associated with the System Account in SAMS. All errors must be fixed before the record can be successfully submitted and saved. Examples of these error notifications are provided below.

## Web Form

Respiratory Data Reporting Form For 05/18/2025 - 05/24/2025

Submit

 Reporting Context: HOSP - Hospital

### Staffed Bed Capacity, Occupancy, and Prevalent Hospitalizations

Important: Please ensure that the values reported for the Staffed and pediatric inpatient and ICU bed capacity and occupancy and

aggregated to weekly totals. The data should provide a single day snapshot of the overall, adult, specifically for Wednesday of the reporting week.

**Section 1: Staffed Bed Capacity and Occupancy**

**Inpatient Beds**

2a. \* All hospital inpatient beds

2b. \* All adult inpatient beds

3a. \* All hospital inpatient occupancy

3b. \* All adult inpatient occupancy

3c. \* All pediatric inpatient occupancy

4a. \* All hospital ICU beds

4b. \* Adult ICU beds

4c. \* Pediatric ICU beds

5a. \* All ICU bed occupancy

5b. \* Adult ICU bed occupancy

5c. \* Pediatric ICU bed occupancy

Error

All hospital inpatient beds must be greater than or equal to All adult inpatient beds

OK

## CSV Upload

Respiratory Data
Weekly Hospital Respiratory Data

27 April 2025 - 07 June 2025
Record Complete

Upload CSV
CSV Template

Upload Errors/Warnings

Orgid	Context	Reporting Date	Type	Field	Message
10018	HOSP	05/24/2025	Error	numInPtBedsAdult	2b. All adult inpatient beds must be less than or equal to 2a. All hospital inpatient beds.
10018	HOSP	05/24/2025	Error	numInPtBeds	Sum of 2b. All adult inpatient beds and 2c. All pediatric inpatient beds must be less than or equal to 2a. All hospital inpatient beds.

Page 1 of 1
View 1 - 2 of 2

Skip Warnings and Upload
Cancel

## CSV Upload and API Submission – Email Notification

Errors, no warnings, required fields missing

N

NHSN (CDC)

To

X

failed-records.csv

2 KB

CDC National Healthcare Safety Network (NHSN)

Dear

Thank you for submitting data to the CDC National Healthcare Safety Network (NHSN) Hospital Respiratory Data (HRD) Weekly Portal.

The file (test\_submission.csv) was received and partially processed with errors on 05/29/2025 13:47:28. Not All records were submitted. Please review the attached document (failed-records.csv). Then, please resolve the error(s) and upload the corrected data. All records without errors were successfully saved.

**Warning** - A possible data quality issue has been detected for the specified data field and collection date, but the record was saved and submitted successfully. Please review and update or correct the reported values if indicated.

**Error** - A confirmed data quality issue has been detected for the specified data field and collection date and must be resolved before the record can be saved and acceptable for submission. Please review and update the reported values where indicated.

Please note your data is incomplete. The file (test\_submission.csv) was received and processed with required fields missing on 05/29/2025 13:47:28.

Please review the attached document (failed-records.csv) for specific missing daily and weekly required fields.

CDC National Healthcare Safety Network (NHSN) Client Support team is available Monday - Friday, 7 AM - 5 PM EDT. Should you have questions about the registration process or the information that needs to be entered, we are here to assist.

E-mail: [nhsn@cdc.gov](mailto:nhsn@cdc.gov)

Thank you again for all that you do.

CDC National Healthcare Safety Network (NHSN)

For a full list of data upload and reporting specifications, please review the HRD Daily and Weekly Reporting Tables of Instructions and Import File Specifications documentation found here, under *Data Collection Forms and Instructions*: <https://www.cdc.gov/nhsn/psc/hospital-respiratory-reporting.html>, along with the full HRD Protocol.

As such, the sections that follow in this reference guide outline additional data processing steps that are performed and applied after data are successfully submitted to the HRD Daily or Weekly Pathways, meaning all reporting specifications and business rules have been met.

## Deduplication of Records

While NHSN users can upload more than one record for a single facility for a specific date (HRD Daily Pathway) or reporting week (HRD Weekly Pathway), our downstream timeseries datasets used for reporting and analytics only include one record per facility per reporting week (or date).

Therefore, our data processing includes a de-deduplication step within each reporting pathway where a single record is chosen based on the completeness of the record for CMS enforcement purposes. If more than one record is considered equal based on these criteria, then the record submitted most recently will be retained.

## Logic Checks

Suppression is applied to the deduplicated data in both the Daily and Weekly data pipelines for values that fail specified logic checks for priority data elements. While many of these checks are addressed at submission through the applied business rules described above, this step ensures any logically implausible data are removed from final aggregate metrics used for reporting, analytics, and public dissemination. The tables below provide the list of logic checks applied to both the Daily and Weekly data pipelines:

### Daily Pathway Logic Checks

Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
Inpatient Beds	numInPtBeds	$(\text{numInPtBedsAdult} + \text{numInPtBedsPed}) > \text{numInPtBeds}$
	numInPtBedsAdult	$(\text{numInPtBedsOccAdult} + \text{numInPtBedsOccPed}) > \text{numInPtBedsOcc}$
	numInPtBedsPed	$(\text{numConfC19HospPatsAdult} + \text{numConfC19HospPatsPed}) > \text{numInPtBedsOcc}$
	numInPtBedsOcc	$(\text{numConfFluHospPatsAdult} + \text{numConfFluHospPatsPed}) > \text{numInPtBedsOcc}$
	numInPtBedsOccAdult	$(\text{numConfRSVHospPatsAdult} + \text{numConfRSVHospPatsPed}) > \text{numInPtBedsOcc}$
	numInPtBedsOccPed	$\text{numInPtBeds} > 20 \text{ AND } (\text{numInPtBedsOcc} / \text{numInPtBeds}) > 1.1$
	numConfFluHospPatsAdult numConfFluHospPatsPed	$\text{numInPtBeds} \leq 20 \text{ AND }$

Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
	numConfC19HospPatsAdult numConfC19HospPatsPed numConfRSVHospPatsAdult numConfRSVHospPatsPed	numInPtBedsOcc – numInPtBeds > 2 (numConfC19HospPatsAdult is null AND numConfC19HospPatsPed is null) OR (numConfFluHospPatsAdult is null AND numConfFluHospPatsPed is null) OR (numConfRSVHospPatsAdult is null AND numConfRSVHospPatsPed is null) OR numInPtBeds is null OR numInPtBedsOcc is null
ICU Beds	numICUBeds numICUBedsAdult numICUBedsPed numICUBedsOcc numICUBedsOccAdult numICUBedsOccPed numConfC19ICUPatsAdult numConfC19ICUPatsPed numConfFluICUPatsAdult numConfFluICUPatsPed numConfRSVICUPatsAdult numConfRSVICUPatsPed	(numICUBedsAdult + numICUBedsPed) > numICUBeds (numICUBedsOccAdult + numICUBedsOccPed) > numICUBedsOcc (numConfC19ICUPatsAdult + numConfC19ICUPatsPed) > numICUBedsOcc (numConfFluICUPatsAdult + numConfFluICUPatsPed) > numICUBedsOcc (numConfRSVICUPatsAdult + numConfRSVICUPatsPed) > numICUBedsOcc numICUBeds is > 20 AND (numICUBedsOcc/numICUBeds) > 1.1 numICUBeds <= 20 AND numICUBedsOcc – numICUBeds > 2 (numConfC19ICUPatsAdult is null AND numConfC19ICUPatsPed is null) OR (numConfFluICUPatsAdult is null AND numConfFluICUPatsPed is null) OR (numConfRSVICUPatsAdult is null AND numConfRSVICUPatsPed is null) OR numICUBeds is null OR numICUBedsOcc is null
COVID-19 Pediatric Admissions and Hospitalized Patients	numConfC19HospPatsPed numConfC19NewAdmPed0to4 numConfC19NewAdmPed5to17	(If numConfC19NewAdmPed0to4 OR numConfC19NewAdmPed5to17 is not null) AND (numConfC19HospPatsPed is not null) AND (numConfC19HospPatsPed > 20 AND (numConfC19NewAdmPed0to4 + numConfC19NewAdmPed5to17) /numConfC19HospPatsPed >1.1) (If numConfC19NewAdmPed0to4 OR numConfC19NewAdmPed5to17 is not null) AND (numConfC19HospPatsPed is not null) AND (numConfC19HospPatsPed <= 20 AND (numConfC19NewAdmPed0to4 + numConfC19NewAdmPed5to17) - numConfC19HospPatsPed > 2)
COVID-19 Adult Admissions and Hospitalized Patients	numConfC19HospPatsAdult numConfC19NewAdmAdult18to49 numConfC19NewAdmAdult50to64 numConfC19NewAdmAdult65to74 numConfC19NewAdmAdult75plus	(IF numConfC19NewAdmAdult18to49 OR numConfC19NewAdmAdult50to64 OR numConfC19NewAdmAdult65to74 OR numConfC19NewAdmAdult75plus is not null) AND (numConfC19HospPatsAdult is not null) AND (numConfC19HospPatsAdult > 20 AND (numConfC19NewAdmAdult18to49 +numConfC19NewAdmAdult50to64 + numConfC19NewAdmAdult65to74 + numConfC19NewAdmAdult75plus) /numConfC19HospPatsAdult >1.1) (IF numConfC19NewAdmAdult18to49 is not null OR numConfC19NewAdmAdult50to64 is not null OR numConfC19NewAdmAdult65to74 is not null OR

Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
		numConfC19NewAdmAdult75plus is not null) AND numConfC19HospPatsAdult is not null) AND (numConfC19HospPatsAdult <= 20 AND (numConfC19NewAdmAdult18to49 + numConfC19NewAdmAdult50to64 + numConfC19NewAdmAdult65to74 + numConfC19NewAdmAdult75plus) - numConfC19HospPatsAdult > 2)
Flu Pediatric Admissions and Hospitalized Patients	numConfFluHospPatsPed numConfFluNewAdmPed0to4 numConfFluNewAdmPed5to17	(IF numConfFluNewAdmPed0to4 is not null OR numConfFluNewAdmPed5to17 is not null) AND (numConfFluHospPatsPed is not null) AND (numConfFluHospPatsPed > 20 and (numConfFluNewAdmPed0to4 + numConfFluNewAdmPed5to17) /numConfFluHospPatsPed >1.1)
		(IF numConfFluNewAdmPed0to4 is not null OR numConfFluNewAdmPed5to17 is not null) AND (numConfFluHospPatsPed is not null) AND (numConfFluHospPatsPed <= 20 AND (numConfFluNewAdmPed0to4 + numConfFluNewAdmPed5to17) - numConfFluHospPatsPed > 2)
Flu Adult Admissions and Hospitalized Patients	numConfFluHospPatsAdult numConfFluNewAdmAdult18to49 numConfFluNewAdmAdult50to64 numConfFluNewAdmAdult65to74 numConfFluNewAdmAdult75plus	(IF numConfFluNewAdmAdult18to49 is not null OR numConfFluNewAdmAdult50to64 is not null OR numConfFluNewAdmAdult65to74 is not null OR numConfFluNewAdmAdult75plus is not null) AND (numConfFluHospPatsAdult is not null) AND (numConfFluHospPatsAdult > 20 AND (numConfFluNewAdmAdult18to49 + numConfFluNewAdmAdult50to64 + numConfFluNewAdmAdult65to74 + numConfFluNewAdmAdult75plus) /numConfFluHospPatsAdult >1.1)
		(IF numConfFluNewAdmAdult18to49 is not null OR numConfFluNewAdmAdult50to64 is not null OR numConfFluNewAdmAdult65to74 is not null OR numConfFluNewAdmAdult75plus is not null) AND (numConfFluHospPatsAdult is not null) AND (numConfFluHospPatsAdult <= 20 AND (numConfFluNewAdmAdult18to49 + numConfFluNewAdmAdult50to64 + numConfFluNewAdmAdult65to74 + numConfFluNewAdmAdult75plus) - numConfFluHospPatsAdult > 2)
RSV Pediatric Admissions and	numConfRSVHospPatsPed numConfRSVNewAdmPed0to4 numConfRSVNewAdmPed5to17	(IF numConfRSVNewAdmPed0to4 is not null OR numConfRSVNewAdmPed5to17 is not null) AND (numConfRSVHospPatsPed is not null)

Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
Hospitalized Patients		AND (numConfrSVHospPatsPed > 20 AND (numConfrSVNewAdmPed0to4 + numConfrSVNewAdmPed5to17) /numConfrSVHospPatsPed > 1.1) (IF numConfrSVNewAdmPed0to4 is not null OR numConfrSVNewAdmPed5to17 is not null) AND (numConfrSVHospPatsPed is not null) AND (numConfrSVHospPatsPed <= 20 AND (numConfrSVNewAdmPed0to4 + numConfrSVNewAdmPed5to17) - numConfrSVHospPatsPed > 2)
RSV Adult Admissions and Hospitalized Patients	numConfrSVHospPatsAdult numConfrSVNewAdmAdult18to49 numConfrSVNewAdmAdult50to64 numConfrSVNewAdmAdult65to74 numConfrSVNewAdmAdult75plus	(IF numConfrSVNewAdmAdult18to49 is not null OR numConfrSVNewAdmAdult50to64 is not null OR numConfrSVNewAdmAdult65to74 is not null OR numConfrSVNewAdmAdult75plus is not null) AND (numConfrSVHospPatsAdult is not null) AND (numConfrSVHospPatsAdult > 20 and (numConfrSVNewAdmAdult18to49 + numConfrSVNewAdmAdult50to64 + numConfrSVNewAdmAdult65to74 + numConfrSVNewAdmAdult75plus) /numConfrSVHospPatsAdult > 1.1) (IF numConfrSVNewAdmAdult18to49 is not null OR numConfrSVNewAdmAdult50to64 is not null OR numConfrSVNewAdmAdult65to74 is not null OR numConfrSVNewAdmAdult75plus is not null) AND (numConfrSVHospPatsAdult is not null) AND (numConfrSVHospPatsAdult <= 20 AND (numConfrSVNewAdmAdult18to49 + numConfrSVNewAdmAdult50to64 + numConfrSVNewAdmAdult65to74 + numConfrSVNewAdmAdult75plus) - numConfrSVHospPatsAdult > 2)

### Weekly Pathway Logic Checks

Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
Inpatient Beds	numInPtBeds numInPtBedsAdult numInPtBedsPed numInPtBedsOcc numInPtBedsOccAdult numInPtBedsOccPed numConfFluHospPatsAdult numConfFluHospPatsPed	(numInPtBedsAdult + numInPtBedsPed) > numInPtBeds (numInPtBedsOccAdult + numInPtBedsOccPed) > numInPtBedsOcc (numConfC19HospPatsAdult + numConfC19HospPatsPed) > numInPtBedsOcc (numConfFluHospPatsAdult + numConfFluHospPatsPed) > numInPtBedsOcc (numConfrSVHospPatsAdult + numConfrSVHospPatsPed) > numInPtBedsOcc numInPtBeds is > 20 AND (numInPtBedsOcc/numInPtBeds) > 1.1 numInPtBeds <= 20 AND



Logic Check Type	Impacted Fields <i>(The fields listed will be converted to null if ANY of the logic check conditions in the column on the right are met)</i>	Data Quality Checks
	numConfC19HospPatsAdult numConfC19HospPatsPed numConfRSVHospPatsAdult numConfRSVHospPatsPed	numInPtBedsOcc – numInPtBeds > 2 (numConfC19HospPatsAdult is null AND numConfC19HospPatsPed is null) OR (numConfFluHospPatsAdult is null AND numConfFluHospPatsPed is null) OR (numConfRSVHospPatsAdult is null AND numConfRSVHospPatsPed is null) OR numInPtBeds is null OR numInPtBedsOcc is null
ICU Beds	numICUBeds numICUBedsAdult numICUBedsPed numICUBedsOcc numICUBedsOccAdult numICUBedsOccPed numConfC19ICUPatsAdult numConfC19ICUPatsPed numConfFluICUPatsAdult numConfFluICUPatsPed numConfRSVICUPatsAdult numConfRSVICUPatsPed	(numICUBedsAdult + numICUBedsPed) > numICUBeds (numICUBedsOccAdult + numICUBedsOccPed) > numICUBedsOcc (numConfC19ICUPatsAdult + numConfC19ICUPatsPed) > numICUBedsOcc (numConfFluICUPatsAdult + numConfFluICUPatsPed) > numICUBedsOcc (numConfRSVICUPatsAdult + numConfRSVICUPatsPed) > numICUBedsOcc numICUBeds is > 20 AND (numICUBedsOcc/numICUBeds) > 1.1 numICUBeds <= 20 AND numICUBedsOcc – numICUBeds > 2 (numConfC19ICUPatsAdult is null AND numConfC19ICUPatsPed is null) OR (numConfFluICUPatsAdult is null AND numConfFluICUPatsPed is null) OR (numConfRSVICUPatsAdult is null AND numConfRSVICUPatsPed is null) OR numICUBeds is null OR numICUBedsOcc is null



## Reconciliation of Valid/Complete Data to Weekly Pathway

NHSN users may choose to submit data via **either** a weekly reporting pathway OR a daily reporting pathway to satisfy requirements for submission of Hospital Respiratory Data for CMS CoP. Data submitted to the weekly pathway represent two types of information:

1. **Single-day snapshot data elements:** the 24 data elements within the reporting form sections for *Bed Capacity and Occupancy and Prevalent Hospitalizations* are required to be reported as **single day snapshots** (specifically, Wednesday) of the reporting week.
2. **Weekly total data elements:** the 21 data elements within the reporting form sections for *New Admissions* are required to be reported to account for aggregated data for the entire reporting week (**specifically, Sunday-Saturday**).

Complete daily data (meaning non-null values reported for all 45 required data elements) submitted for a given reporting week (Sunday – Saturday) to the Daily HRD pathway will be reconciled with data submitted via the Weekly HRD pathway. Values reported for the Wednesday during the reporting period will be retained for the 24 *Bed Capacity and Occupancy and Prevalent Hospitalizations* data elements, while weekly aggregate totals will be calculated for the 21 *New Admissions* data elements by summing the values reported each day of the reporting week.

Data reported to the Daily HRD pathway will only be carried over to the Weekly HRD pathway if **complete** data were reported for all required fields each day in the reporting period (for *New Admissions*) and on Wednesday (for *Bed Capacity and Occupancy and Prevalent Hospitalizations*).

Note: This data reconciliation step occurs AFTER deduplication of the Daily HRD data and application of the logic checks outlined above to the Daily HRD data. Therefore, invalid daily data that fail the data quality logic checks will be treated as missing in this step and, thus, will not be carried over to the Weekly HRD pathway.

## Aggregate Data Pipeline

Reconciled, de-duplicated weekly hospital respiratory data with logic checks applied are ingested into the 1 CDC Data Platform (1CDP), a Palantir Foundry platform, for further transformation and aggregation prior to analytics, reporting, and public release.

Weekly hospital level data are first aggregated to the NHSN Facility ID level, aggregating data reported across multiple contexts for a single hospital. Exclusion criteria are then applied to remove hospitals that do not meet the following criteria:

- facType (NHSN Facility Type) = {HOSP-GEN, HOSP-CAH, HOSP-LTAC, HOSP-SURG, HOSP-CHLD, HOSP-ORTHO, HOSP-ONC, HOSP-WOM, HOSP-WOMCHILD, HOSP-VA, HOSP-MIL}
  - Note: These facility types represent hospitals that are required to report weekly hospital respiratory under the CMS CoP as well as federal hospitals
- facStatus (NHSN Facility Status) = 'A'

- Note: A facility status of 'A' indicates that the hospital currently has an Active registration with NHSN

After exclusion criteria are applied, the weekly hospital data are then aggregated to various geographic levels (nation, HHS region, state/territory) allowing for calculation of aggregate metrics, including hospital admission rates and inpatient and ICU occupancy percentages. These aggregate data are published to [data.cdc.gov](https://data.cdc.gov) and [CDC's NHSN HRD website](#) every Friday afternoon.

## Additional Resources

- [CDC'S NHSN Hospital Respiratory Data](#)
- [Hospital Respiratory Data Weekly Reporting Form](#)
- [Hospital Respiratory Data Table of Instructions](#)
- [Hospital Respiratory Data Daily Reporting Form](#)
- [Hospital Respiratory Data Table of Instructions](#)