

NHSN Healthcare Capacity Dashboard

Version 1

Implementation date: June 26, 2025

Introduction

As part of CDC's ongoing NHSN Connectivity Initiative: Hospital Bed Capacity Project, NHSN has created a Dashboard for Groups to visualize their facilities' Healthcare Capacity data. The Dashboard is intended to provide a summary of measures collected via NHSN Connectivity Initiative: Hospital Bed Capacity Project. The Dashboard, accessible via the NHSN Patient Safety Component Home Page, gives Group users an opportunity to view and access their facilities' Healthcare Capacity data via an interactive chart display. The Group Dashboard will include Healthcare Capacity data for the facilities who have granted access to their data. This guide will help Group users understand how to use and interpret the Healthcare Capacity Dashboard. All facility-level data included in this guide are fictitious. They are intended for education purposes only.

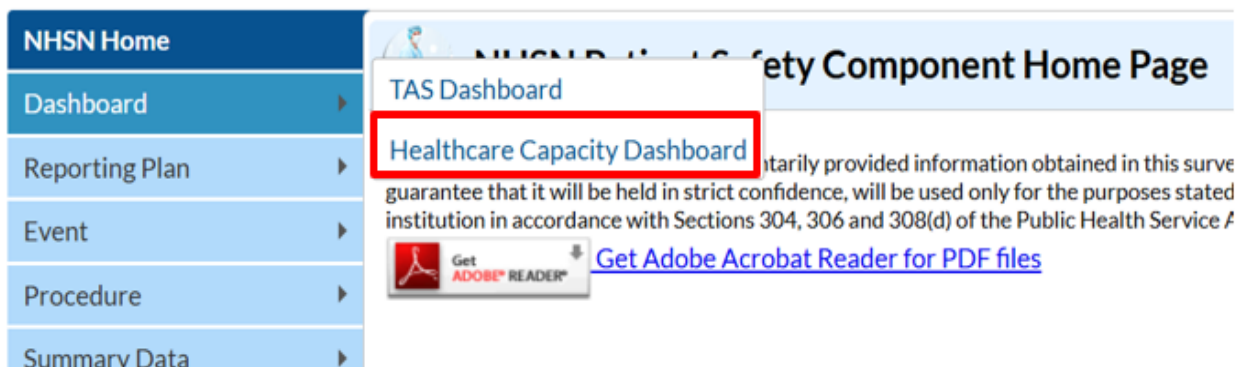
TIP: The Dashboard is best viewed using the following internet browsers: Microsoft Edge, Google Chrome, Safari.

How to Access the Healthcare Capacity Dashboard

To view the Dashboard, select "Healthcare Capacity Dashboard" from the Dashboard tab on the left navigation pane of the NHSN Patient Safety Component Home Page. No dataset generation is required to view data in the dashboard. The data in the dashboard are updated as data are received from facilities and/or Groups.



NHSN - National Healthcare Safety Network (ps1320-6dc974978c-66rkz:80)

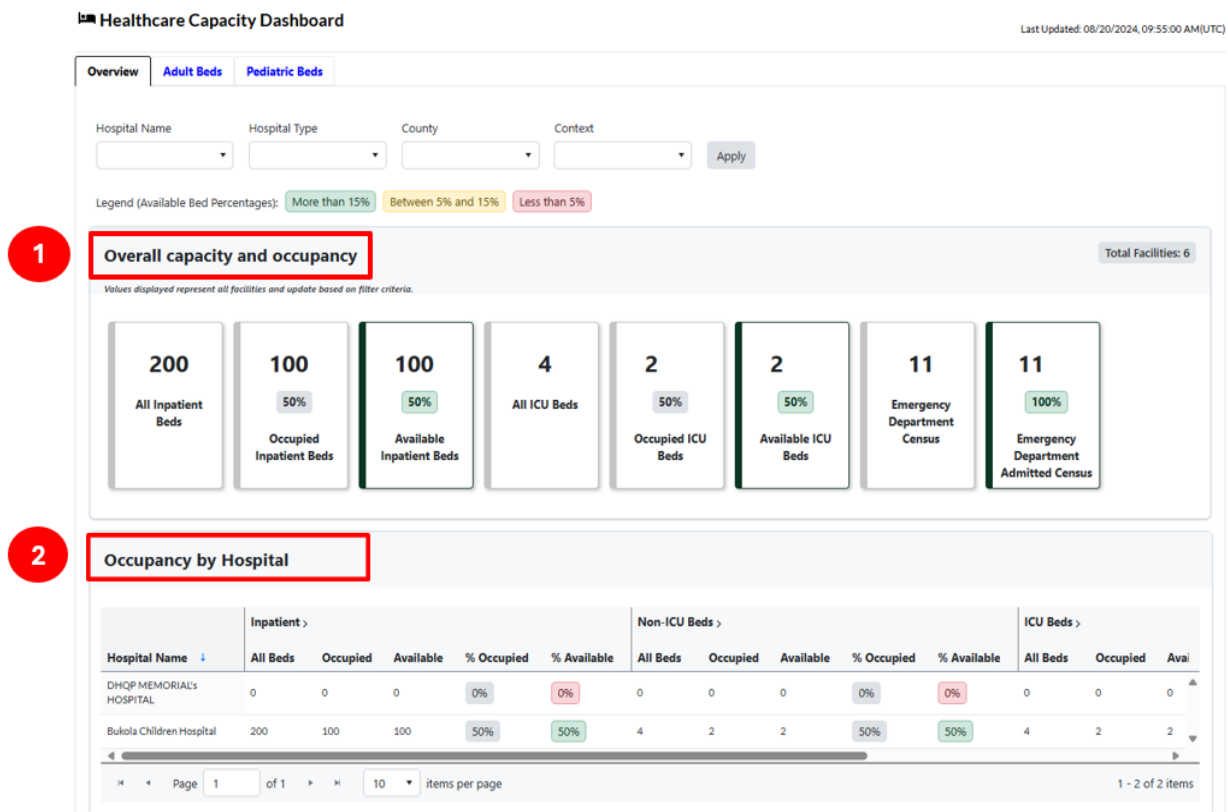


The Interactive Display Tabs: Overview, Adult Beds, and Pediatric Beds

There are three main display tabs that appear in the Healthcare Capacity Group Dashboard: 1) **Overview** 2) **Adult Beds** and 3) **Pediatric Beds**



Within each display tab is 1) an aggregate summary of key capacity and occupancy measures representing the most recent NHSN Connectivity Initiative: Hospital Bed Capacity Project data received for hospitals within the Group, and 2) a line-list table of occupancy measures displayed by hospital within the Group.



Below is a list of the measures included in the Healthcare Capacity Dashboard and their definitions.

Table 1: Details of the NHSN Connectivity Initiative: Hospital Bed Capacity Project Measures Included in NHSN Healthcare Capacity Group Dashboard

Measure Label	Measure Description	Data Type	Calculation (if derived)
Overview			
All Inpatient Beds	Total Inpatient Beds	Number	Overall Occupied Inpatient Beds + Overall Available Inpatient Beds
Occupied Inpatient Beds	Census across all beds, including all specialty beds (i.e., CMS-certified rehabilitation, CMS-certified psychiatric, obstetrics, NICU [all levels], and nursery beds)	Number	
Available Inpatient Beds	Count of unoccupied staffed and unblocked beds across all beds, including specialty beds (i.e., CMS-certified rehabilitation, CMS-certified psychiatric, obstetrics, NICU [all levels], and nursery)	Number	
% Inpatient Beds Occupied	Percent of Total Inpatient Beds Occupied	Percent	$(\text{Overall Occupied Inpatient Beds} / \text{Overall All Inpatient Beds}) \times 100$
% Inpatient Beds Available	Percent of Total Inpatient Beds Available	Percent	$(\text{Overall Available Inpatient Beds} / \text{Overall All Inpatient Beds}) \times 100$
All Non-ICU Beds	Total Non-ICU Beds	Number	Adult Occupied Non-ICU Beds + Adult Available Non-ICU Beds + Pediatric Occupied Non-ICU Beds + Pediatric Available Non-ICU Beds
Occupied Non-ICU Beds	Total Non-ICU Beds Occupied	Number	Adult Occupied Non-ICU Beds + Pediatric Occupied Non-ICU Beds
Available Non-ICU Beds	Total Non-ICU Beds Available	Number	Adult Available Non-ICU Beds + Pediatric Available Non-ICU Beds
% Non-ICU Beds Occupied	Percent of Total Non-ICU Beds Occupied	Percent	$(\text{Overall Occupied Non-ICU Beds} / \text{Overall All Non-ICU Beds}) \times 100$
% Non-ICU Beds Available	Percent of Total Non-ICU Beds Available	Percent	$(\text{Overall Available Non-ICU Beds} / \text{Overall All Non-ICU Beds}) \times 100$
All ICU Beds	Total ICU Beds	Number	Adult Occupied ICU Beds + Adult Available ICU Beds + Pediatric Occupied ICU Beds + Pediatric Available ICU Beds
Occupied ICU Beds	Total ICU Beds Occupied	Number	Adult Occupied ICU Beds + Pediatric Occupied Non-ICU Beds
Available ICU Beds	Total ICU Beds Available	Number	Adult Available ICU Beds + Pediatric Available ICU Beds
% ICU Beds Occupied	Percent of Total ICU Beds Occupied	Percent	$(\text{Overall Occupied ICU Beds} / \text{Overall All ICU Beds}) \times 100$
% ICU Beds Available	Percent of Total ICU Beds Available	Percent	$(\text{Overall Available ICU Beds} / \text{Overall All ICU Beds}) \times 100$
Emergency Department Census	Census of all patients in the emergency department. This includes all patients registered in the emergency department regardless of physical location within the department.	Number	

Measure Label	Measure Description	Data Type	Calculation (if derived)
Emergency Department Admitted Census	Census of all patients in the emergency department that have an admit to inpatient or observation order.	Number	
% Emergency Department Admitted	Percent of Overall Emergency Department Patients Admitted	Percent	(Overall Emergency Department Admitted Census / Overall Emergency Department Census) x 100
Adult Beds			
All Inpatient Beds	Total Adult Inpatient Beds	Number	Adult Occupied Inpatient Beds + Adult Available Inpatient Beds
Occupied Inpatient Beds	Census across all adult beds (Adult ICU, Adult PCU, Adult MT/MS and Adult OBS), excluding CMS-certified rehabilitation, CMS-certified psychiatric, and obstetrics beds.	Number	
Available Inpatient Beds	Count of unoccupied staffed and unblocked beds across all adult beds (Adult ICU, Adult PCU, Adult MT/MS and Adult OBS), excluding CMS-certified rehabilitation, CMS-certified psychiatric, and obstetrics beds.	Number	
% Inpatient Beds Occupied	Percent of Total Adult Inpatient Beds Occupied	Percent	(Adult Occupied Inpatient Beds / Adult All Inpatient Beds) x 100
% Inpatient Beds Available	Percent of Total Adult Inpatient Beds Available	Percent	(Adult Available Inpatient Beds / Adult All Inpatient Beds) x 100
All Non-ICU Beds	Total Adult Non-ICU Beds	Number	Adult Occupied Non-ICU Beds + Adult Available Non-ICU Beds
Occupied Non-ICU Beds	Census across all adult PCU, MT/MS and OBS beds.	Number	
Available Non-ICU Beds	Count of unoccupied staffed and unblocked beds across all adult PCU, MT, MS and OBS beds.	Number	
% Non-ICU Beds Occupied	Percent of Total Adult Non-ICU Beds Occupied	Percent	(Adult Occupied Non-ICU Beds / Adult All Non-ICU Beds) x 100
% Non-ICU Beds Available	Percent of Total Adult Non-ICU Beds Available	Percent	(Adult Available Non-ICU Beds / Adult All Non-ICU Beds) x 100
All ICU Beds	Total Adult ICU Beds	Number	Adult Occupied ICU Beds + Adult Available ICU Beds
Occupied ICU Beds	Census across all adult intensive care or critical care beds. Adult Critical Care Units provide care and treatment for the highest acuity patients. Interventions may include ventilators, hemodynamic monitoring, IV drug therapies and a variety of procedures.	Number	
Available ICU Beds	Count of unoccupied staffed and unblocked beds across all adult intensive care or critical care beds. Adult Critical Care Units provide care and treatment for the highest acuity patients. Interventions may include ventilators, hemodynamic monitoring, IV drug therapies and a variety of procedures.	Number	

Measure Label	Measure Description	Data Type	Calculation (if derived)
% ICU Beds Occupied	Percent of Total Adult ICU Beds Occupied	Percent	$(\text{Adult Occupied ICU Beds} / \text{Adult All ICU Beds}) \times 100$
% ICU Beds Available	Percent of Total Adult ICU Beds Available	Percent	$(\text{Adult Available ICU Beds} / \text{Adult All ICU Beds}) \times 100$
Emergency Department Census	Census of all adult patients in the emergency department. This includes all adult patients registered in the emergency department regardless of physical location within the department.	Number	
Emergency Department Admitted Census	Census of all adult patients in the emergency department that have an admit to inpatient or observation order.	Number	
% Emergency Department Admitted	Percent of Adult Emergency Department Patients Admitted	Percent	$(\text{Adult Emergency Department Admitted Census} / \text{Adult Emergency Department Census}) \times 100$
Pediatric Beds			
All Inpatient Beds	Total Pediatric Inpatient Beds	Number	Pediatric Occupied Inpatient Beds + Pediatric Available Inpatient Beds
Occupied Inpatient Beds	Census across all pediatric beds (Peds ICU, Peds PCU, Peds MT/MS and Peds OBS), excluding specialty nursery and NICU [all levels] specialty beds.	Number	
Available Inpatient Beds	Count of unoccupied staffed and unblocked beds across all pediatric beds (Peds ICU, Peds PCU, Peds MT/MS and Peds OBS), excluding specialty nursery and NICU [all levels] specialty beds.	Number	
% Inpatient Beds Occupied	Percent of Total Pediatric Inpatient Beds Occupied	Percent	$(\text{Pediatric Occupied Inpatient Beds} / \text{Pediatric All Inpatient Beds}) \times 100$
% Inpatient Beds Available	Percent of Total Pediatric Inpatient Beds Available	Percent	$(\text{Adult Available Inpatient Beds} / \text{Adult All Inpatient Beds}) \times 100$
All Non-ICU Beds	Total Pediatric Non-ICU Beds	Number	Pediatric Occupied Non-ICU Beds + Pediatric Available Non-ICU Beds
Occupied Non-ICU Beds	Census across all pediatric PCU, MT/MS and OBS beds.	Number	
Available Non-ICU Beds	Count of unoccupied staffed and unblocked beds across all pediatric PCU, MT, MS and OBS beds.	Number	
% Non-ICU Beds Occupied	Percent of Total Pediatric Non-ICU Beds Occupied	Percent	$(\text{Pediatric Occupied Non-ICU Beds} / \text{Pediatric All Non-ICU Beds}) \times 100$
% Non-ICU Beds Available	Percent of Total Pediatric Non-ICU Beds Available	Percent	$(\text{Pediatric Available Non-ICU Beds} / \text{Pediatric All Non-ICU Beds}) \times 100$
All ICU Beds	Total Pediatric ICU Beds	Number	Pediatric Occupied ICU Beds + Pediatric Available ICU Beds

Measure Label	Measure Description	Data Type	Calculation (if derived)
Occupied ICU Beds	Census across all pediatric intensive care or critical care beds. Pediatric Intensive Care Unit (PICU) also known as Pediatric Critical Care Unit. Interventions may include ventilators, hemodynamic monitoring, IV drug therapies and a variety of procedures.	Number	
Available ICU Beds	Count of unoccupied staffed and unblocked beds across all pediatric intensive care or critical care beds. Pediatric Intensive Care Unit (PICU) also known as Pediatric Critical Care Unit. Interventions may include ventilators, hemodynamic monitoring, IV drug therapies and a variety of procedures.	Number	
% ICU Beds Occupied	Percent of Total Pediatric ICU Beds Occupied	Percent	$(\text{Pediatric Occupied ICU Beds} / \text{Pediatric All ICU Beds}) \times 100$
% ICU Beds Available	Percent of Total Pediatric ICU Beds Available	Percent	$(\text{Pediatric Available ICU Beds} / \text{Pediatric All ICU Beds}) \times 100$
Emergency Department Census	Census of all pediatric patients in the emergency department. This includes all pediatric patients registered in the emergency department regardless of physical location within the department.	Number	
Emergency Department Admitted Census	Census of all pediatric patients in the emergency department that have an admit to inpatient or observation order.	Number	
% Emergency Department Admitted	Percent of Pediatric Emergency Department Patients Admitted	Percent	$(\text{Pediatric Emergency Department Admitted Census} / \text{Pediatric Emergency Department Census}) \times 100$

How to Filter Data in the Healthcare Capacity Dashboard

There are four filter options that can be used to filter the data that are summarized and displayed in each tab of the Healthcare Capacity Dashboard. Please note that the filter is only applied to the tab being viewed. The four available filters are:

1. **Hospital Name:** Facility ID number & Name of Hospital
2. **Hospital Type:** Filters data to include only hospital records for the specified hospital type (e.g., HOSP-GEN – General Hospital, including Acute, Trauma, and Teaching; HOSP-CHLD – Children’s Hospital; HOSP-REHAB – Rehabilitation Hospital, etc.)
3. **County:** Filters data to include only records from hospitals within the specified county/county-equivalent
4. **Context:** Filters data to include only hospital records for the specified reporting context (e.g., HOSP, IRF, IPF, etc.)

NHSN - National Healthcare Safety Network (ps1320-65646d5c96-nj4jt:80)

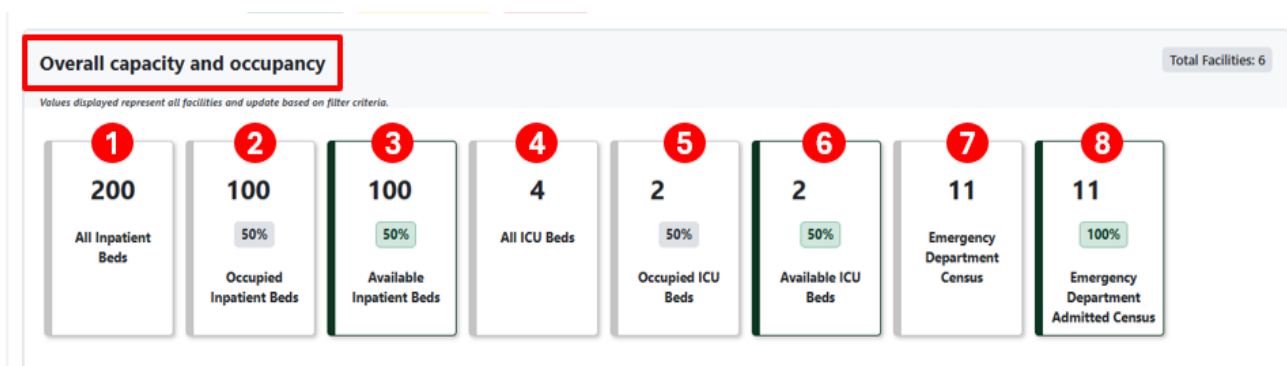
Healthcare Capacity Dashboard Last Updated: 08/20/2024, 09:55:00 AM(UTC)

Overview **Adult Beds** Pediatric Beds

1 Hospital Name 2 Hospital Type 3 County 4 Context

Capacity and Occupancy Summary

The Capacity and Occupancy chart displayed on each tab provides a snapshot of key healthcare capacity and occupancy measures for facilities within the Group. The measures displayed are 1) **All Inpatient Beds** 2) **Occupied Inpatient Beds** 3) **Available Inpatient Beds** 4) **All ICU Beds** 5) **Occupied ICU Beds** 6) **Available ICU Beds** 7) **Emergency Department Census** 8) **Emergency Department Admitted Census** as shown in the screenshot below.



For non-zero values of the following metrics, a percentage metric will also display within the metric card below the absolute count: Occupied Inpatient Beds, Available Inpatient Beds, Occupied ICU beds, Available ICU Beds, and Emergency Department Admitted Census.

The occupied bed percentages will display as gray, while the available bed percentages and the emergency department admitted census percentages will be color-coded based on the categories listed in the legend provided at the top of the dashboard (see screenshot below).

Legend (Available Bed Percentages):

More than 15%

Between 5% and 15%

Less than 5%

NOTE: Default values displayed represent aggregates of all facilities and update based on filter criteria.

Occupancy by Hospital Line-list

The Occupancy by Hospital provides a line-list of key healthcare capacity and occupancy measures for each hospital within the Group. The measures are separated into 1) **Inpatient** 2) **Non-ICU Beds** 3) **ICU Beds** 4) **Emergency Department** as shown in the screenshot below.

Occupancy by Hospital

Hospital Name	Inpatient					Non-ICU Beds					ICU Beds					Emergency department		
	All Beds	Occupied	Available	% Occupied	% Available	All Beds	Occupied	Available	% Occupied	% Available	All Beds	Occupied	Available	% Occupied	% Available	Total Census	Total Admitted	% Admitted
DHQP MEMORIAL'S HOSPITAL	0	0	0	0%	0%	0	0	0	0%	0%	0	0	0	0%	0%	1	1	100%

«

Page 1 of 1

»

10 items per page

1 - 1 of 1 iter

Similar to the Capacity and Occupancy Summary, percentage metrics will display within a color-coded box in the table. The occupied bed percentages will display as gray, while the available bed percentages and the emergency department admitted census percentages will be color-coded based on the categories listed in the legend.

Additional Resources:

NHSN Connectivity Initiative: Hospital Bed Capacity Project: [Hospital Bed Capacity Project](#) | [NHSN](#) | [CDC](#)