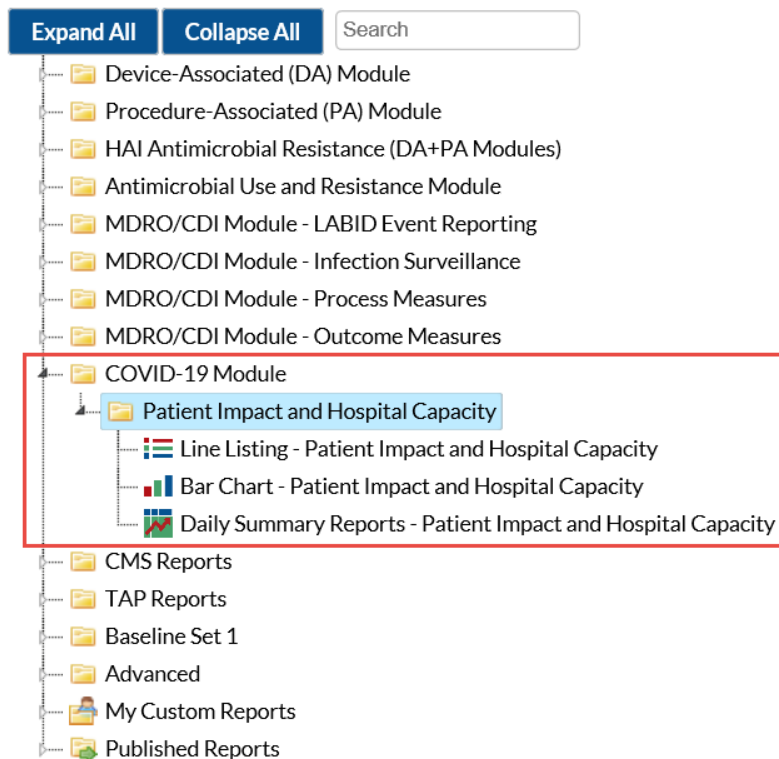


# NATIONAL HEALTHCARE SAFETY NETWORK: COVID-19 Module Analysis Reports

Updated April 2020

## Description

As part of CDC's ongoing COVID-19 response, NHSN has created reports within the analysis function in NHSN to further analyze COVID-19 Module data. The reports are intended to offer the additional options to analyze the data being entered for the COVID-19 Pathways. Each Pathway folder will include reports that are specific to data collected within that portal. The report options included in the COVID-19 Module reports are line lists, bar charts, daily summary reports displayed in proportions, and frequency tables. For more information on entering data within the COVID-19 module, please see: <https://www.cdc.gov/nhsn/acute-care-hospital/covid19/index.html>.



# NATIONAL HEALTHCARE SAFETY NETWORK: COVID-19 Module Analysis Reports

## Patient Impact and Hospital Capacity Pathway

This pathway enables hospitals to report daily counts of patients with suspected and confirmed COVID-19 diagnosed. Data collected includes the current use and availability of hospital beds and mechanical ventilators. Within the folder included in the analysis reports, there is a Line Listing, Bar Graph, and a Daily Summary Report.

## Line Listing - Patient Impact and Hospital Capacity

This report option provides a detailed and organized look at the data entered for the Patient Impact and Hospital Capacity Module. It includes all data entered for this pathway in a table format. The table included below displays the data elements included in the report.

**Table 1: Variables Included in the Default Line Listing for Patient Impact and Capacity Pathways**

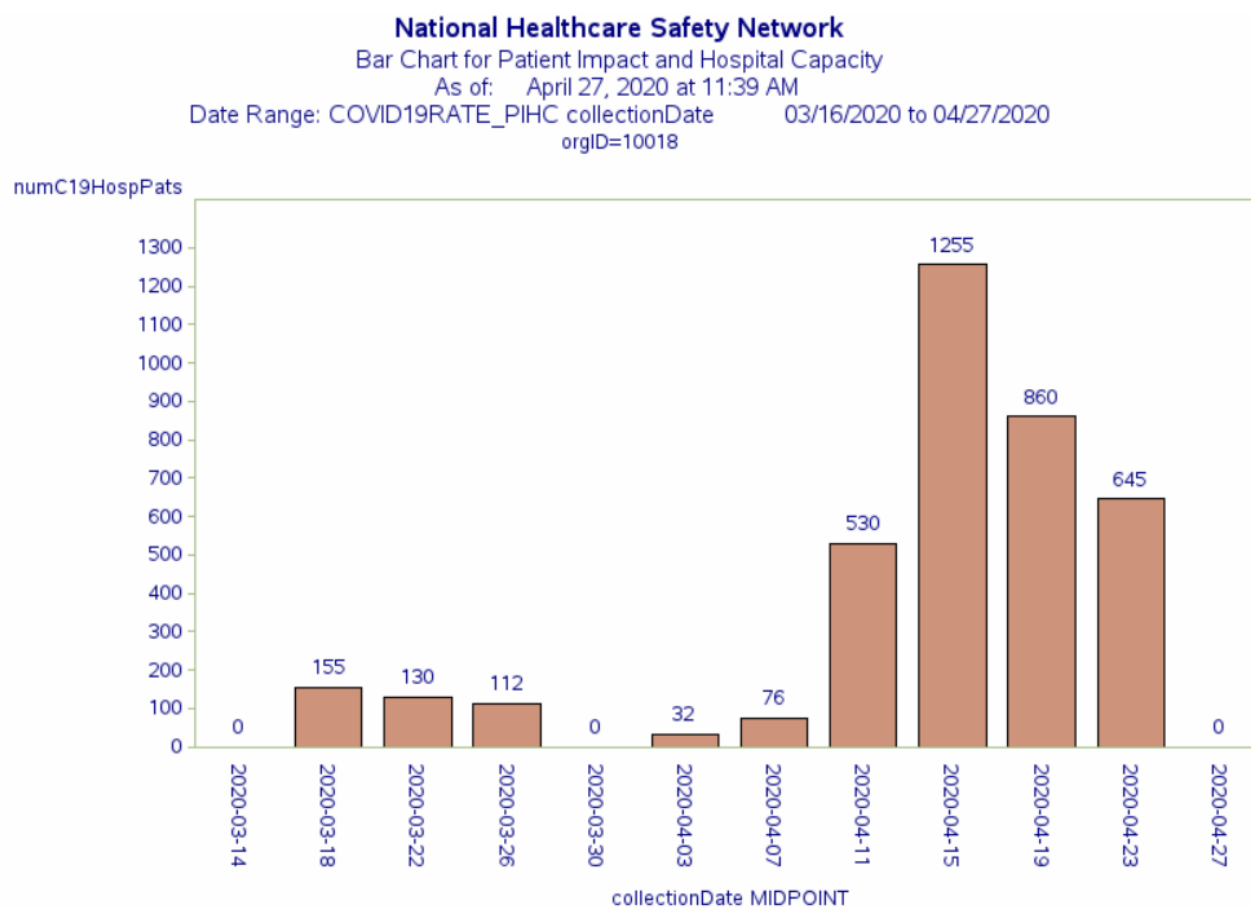
orgID
Collection Date
Census ID
Number of Beds
Hospital inpatient bed occupancy
Hospitalized: Number of Hospitalized COVID-19 patients
Hospitalized and Ventilated: Number of Hospitalized COVID-19 patients on mechanical ventilators
ED/Overflow: Number of COVID-19 patients in ED or overflow location
ED/Overflow and Ventilated: Number of COVID-19 patients in ED or overflow locations on mechanical ventilators
Hospital Onset: Number of COVID-19 hospitalized patients with onset 14+ days after hospitalization
Deaths: Number of COVID-19 patients who died in hospital, ED, or overflow locations
Number of total beds
Number of ICU beds
ICU Bed Occupancy: Total number of staffed inpatient ICU beds that are occupied
Mechanical Ventilators: Total number of ventilators available
Mechanical Ventilators in Use: Total number of ventilators in use

For more information on running and modifying a line listing report, please see the following guidance document:  
<https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/linelists.pdf>

# NATIONAL HEALTHCARE SAFETY NETWORK: COVID-19 Module Analysis Reports

## Bar Graph - Patient Impact and Hospital Capacity

The bar chart report provides a graphical representation of data where the length or height of the bars represents counts of records meeting the criteria for the Patient Impact and Hospital Capacity Pathway data. Currently, the bar chart defaults to display the number of patients hospitalized by COVID-19 by collection date for your facility. Please be aware that the date variable for this bar chart can only be the collection date. For more information on modifying a bar graph within NHSN, please see the following document: <https://www.cdc.gov/nhsn/pdfs/ps-analysis-resources/BarCharts.pdf>



Data contained in this report were last generated on April 24, 2020 at 2:54 PM to include data beginning January 2016 .

# NATIONAL HEALTHCARE SAFETY NETWORK: COVID-19 Module Analysis Reports

## Daily Summary Reports - Patient Impact and Hospital Capacity

The daily summary report is a compiled report of different proportional data for 7 individual data elements. These elements include: proportion of inpatient beds occupied by COVID-19 patients, proportion of inpatients with suspected or confirmed COVID-19, proportion of inpatients with suspected or confirmed COVID-19 on mechanical ventilator, proportion of ED/Overflow patients with COVID-19 on mechanical ventilator, proportion of inpatient beds occupied (all inpatients), proportion of ICU beds that are occupied, and proportion of ventilators in use. Table 2 below lists the proportions and how they are derived.

**Table 2: Proportion Calculation of the Daily Summary Reports**

Proportion Variable	Numerator/Denominator Values
Proportion of Inpatient Beds Occupied by COVID-19 Patients	Number of hospitalized COVID-19 patients / Number of beds
Proportion of Inpatients with Suspected or Confirmed COVID-19	Number of hospitalized COVID-19 patients / Total number of staffed inpatient beds that are occupied
Proportion of Inpatients with Suspected or Confirmed COVID-19 on Mechanical Ventilator	Number of hospitalized COVID-19 patients on mechanical ventilators / Number of hospitalized COVID-19 patients
Proportion of ED/Overflow Patients with COVID-19 on Mechanical Ventilator	Number of COVID-19 patients in ED or overflow locations on mechanical ventilators / Number of COVID-19 patients in ED or overflow location
Proportion of Inpatient Beds Occupied (all inpatients)	Total number of staffed inpatient beds that are occupied / Number of beds
Proportion of ICU Beds Occupied	Total number of staffed inpatient ICU beds that are occupied / Number of ICU beds
Proportion of Ventilators in Use	Total number of ventilators in use / Total number of ventilators available

### Additional Resources:

CDC's Coronavirus (COVID-19) website: <https://www.cdc.gov/coronavirus/2019-nCoV/index.html>

NHSN COVID-19 website: <https://www.cdc.gov/nhsn/acute-care-hospital/covid19/index.html>

Facility Guide to Using the COVID-19 Module: <https://www.cdc.gov/nhsn/pdfs/covid19/facilityqrg-508.pdf>

FAQs for COVID-19 Module: <https://www.cdc.gov/nhsn/pdfs/covid19/covid19-faqs-508.pdf>