

Validation Rules for HHS COVID Data

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This document provides information about the current HHS COVID dataset, Juvare offerings to expedite configuration and automatic submissions, instructions on standing up reporting, and suggestions to streamline data collection. This document is updated as revisions are introduced.

Related Documentation

- [Jan 2022 Dataset Guide](#)
- [Jan 2021 Dataset Guide](#)

Beds

	Group	Rule (ID Expression)	User-Friendly Validation Message	Standard Status Types
B1	Beds	#All Adult Hospital Beds <= #All Hospital Beds	The number of adult beds cannot be greater than the total number of beds.	<ul style="list-style-type: none">• HHS: All Adult Hospital Beds• HHS: All Hospital Beds
B2	Beds	#All Hospital Inpatient Beds <= #All Hospital Beds	The number of inpatient beds cannot be greater than the total number of beds.	<ul style="list-style-type: none">• HHS: All Hospital Inpatient Beds• HHS: All Hospital Beds
B3	Beds	#Adult Hospital Inpatient Beds + #All Inpatient Pediatric Beds <= #All Hospital Inpatient Beds	The number of inpatient adult beds and inpatient pediatric beds cannot be greater than the total number of inpatient beds.	<ul style="list-style-type: none">• HHS: Adult Hospital Inpatient Beds• HHS: All Inpatient Pediatric Beds• HHS: All Hospital Inpatient Beds
B4	Beds	#All Hospital Inpatient Beds Occupancy <= #All Hospital Inpatient Beds	The number of occupied inpatient beds cannot be greater than the total number of inpatient beds.	<ul style="list-style-type: none">• HHS: All Hospital Inpatient Beds Occupancy• HHS: All Hospital Inpatient Beds

B5	Beds	#Adult Hospital Inpatient Bed Occupancy + #Pediatric Inpatient Bed Occupancy <= #All Hospital Inpatient Beds Occupancy	The number of occupied adult inpatient beds and occupied pediatric inpatient beds cannot be greater than the total number of occupied inpatient beds.	<ul style="list-style-type: none"> HHS: Adult Hospital Inpatient Bed Occupancy HHS: Pediatric Inpatient Bed Occupancy HHS: All Hospital Inpatient Beds
B6	Beds	#ICU Beds <= #All Hospital Inpatient Beds	The number of ICU beds cannot be greater than the total number of inpatient beds.	<ul style="list-style-type: none"> HHS: ICU Beds HHS: All Hospital Inpatient Beds
B7	Beds	#Adult ICU Beds <= #ICU Beds	The number of adult ICU beds cannot be greater than the total number of ICU beds.	<ul style="list-style-type: none"> HHS: Adult ICU Beds HHS: ICU Beds
B8	Beds	#ICU Bed Occupancy <= #ICU Beds	The number of occupied ICU beds cannot be greater than the total number of ICU beds.	<ul style="list-style-type: none"> HHS: ICU Bed Occupancy HHS: ICU Beds
B9	Beds	#Adult ICU Bed Occupancy <= #Adult ICU Beds	The number of occupied adult ICU beds cannot be greater than the total number of adult ICU beds.	<ul style="list-style-type: none"> HHS: Adult ICU Bed Occupancy HHS: Adult ICU Beds
B10	Beds	#Adult ICU Bed Occupancy <= #ICU Bed Occupancy	The number of occupied adult ICU beds cannot be greater than the number of occupied ICU beds.	<ul style="list-style-type: none"> HHS: Adult ICU Bed Occupancy HHS: ICU Bed Occupancy
B11	Beds	#All Hospital Inpatient Beds Occupancy <= #All Hospital Beds	The number of occupied inpatient beds cannot be greater than the total number of beds.	<ul style="list-style-type: none"> HHS: All Hospital Inpatient Beds Occupancy HHS: All Hospital Beds
B12	Beds	#All Hospital Beds <= 9999	The number of hospital beds cannot be greater than 9999.	HHS: All Hospital Beds
B13	Beds	#All Adult Hospital Beds <= 9999	The number of adult hospital beds cannot be greater than 9999.	HHS: All Adult Hospital Beds
B14	Beds	#Hospital Inpatient Bed Occupancy <= 9999	The number of inpatient bed occupancy cannot be greater than 9999.	HHS: All Hospital Inpatient Beds
B15	Beds	#Adult Hospital Inpatient Bed Occupancy <= 9999	The number of adult inpatient bed occupancy cannot be greater than 9999.	HHS: Adult Hospital Inpatient Beds
B16	Beds	#All Hospital Inpatient Beds <= 9999	The number of inpatient beds cannot be greater than 9999.	HHS: All Hospital Inpatient Beds
B17	Beds	#All Adult Hospital Inpatient Beds <= 9999	The number of adult inpatient beds cannot be greater than 9999.	HHS: Adult Hospital Inpatient Beds
B18	Beds	#ICU Bed Occupancy <= 9999	The number of ICU bed occupancy cannot be greater than 9999.	HHS: ICU Beds
B19	Beds	#Adult ICU Bed Occupancy <= 9999	The number of adult ICU bed occupancy cannot be greater than 9999.	HHS: Adult ICU Beds
B20	Beds	#All ICU Beds <= 9999	The number of ICU beds cannot be greater than 9999.	HHS: ICU Beds
B21	Beds	#All Adult ICU Beds <= 9999	The number of adult ICU beds cannot be greater than 9999.	HHS: Adult ICU Beds
B22	Beds	#All Pediatric Inpatient Beds null	The number of pediatric inpatient beds is required.	HHS: All Inpatient Pediatric Beds
B23	Beds	#Pediatric Inpatient Bed Occupancy null	The number of pediatric inpatient bed occupancy is required.	HHS: Pediatric Inpatient Bed Occupancy

B24	Beds	#Total Staffed Pediatric ICU Beds null	The number of pediatric ICU beds is required.	HHS: Staffed Pediatric ICU Beds
B25	Beds	#Staffed Pediatric ICU Bed Occupancy null	The number of pediatric ICU bed occupancy is required.	HHS: Staffed Pediatric ICU Bed Occupancy
B26	Beds	#All Pediatric Inpatient Beds <= #All Hospital Inpatient Beds	The number of pediatric ICU bed occupancy cannot be greater than the number of all inpatient beds.	<ul style="list-style-type: none"> HHS: Pediatric ICU Bed HHS: All Hospital Inpatient Beds
B27	Beds	#Pediatric Inpatient Bed Occupancy <= #All Pediatric Inpatient Beds	The number of pediatric inpatient bed occupancy cannot be greater than the number of all inpatient pediatric beds.	<ul style="list-style-type: none"> HHS: Pediatric Inpatient Bed Occupancy HHS: All Inpatient Pediatric Beds
B28	Beds	#Staffed Pediatric ICU Bed Occupancy <= #All Pediatric Inpatient Beds	The number of pediatric ICU beds cannot be greater than the number of all inpatient pediatric beds.	<ul style="list-style-type: none"> HHS: Pediatric ICU beds HHS: All Inpatient Pediatric Beds
B29	Beds	#Total Staffed Pediatric ICU Beds <= #All ICU Beds	The number of pediatric ICU beds cannot be greater than the number of ICU beds.	<ul style="list-style-type: none"> HHS: Pediatric ICU beds HHS: ICU Beds
B30	Beds	#Staffed Pediatric ICU Bed Occupancy <= #Pediatric Inpatient Bed Occupancy	The number of pediatric ICU bed occupancy cannot be greater than the number of pediatric inpatient bed occupancy.	<ul style="list-style-type: none"> HHS: Pediatric ICU Bed Occupancy HHS: Pediatric Inpatient Bed Occupancy
B31	Beds	#Staffed Pediatric ICU Bed Occupancy <= #ICU Bed Occupancy	The number of pediatric ICU bed occupancy cannot be greater than the number of ICU bed occupancy.	<ul style="list-style-type: none"> HHS: Pediatric ICU Bed Occupancy HHS: ICU Bed Occupancy

Vents

	Group	Rule (ID Expression)	User-Friendly Validation Message	Standard Status Types
V1	Vents	#Mechanical ventilators in use <= #Total Mechanical ventilators	The number of mechanical ventilators in use cannot be greater than the total number of mechanical ventilators.	<ul style="list-style-type: none"> HHS: Mechanical ventilators in use HHS: Total Mechanical ventilators

Patients

	Group	Rule (ID Expression)	User-Friendly Validation Message	Standard Status Types
P2	Patients	#Hospitalized adult confirmed COVID <= #Total hospitalized adult suspected/confirmed	The number of confirmed adult patients cannot be greater than the number of suspected and confirmed adult patients.	<ul style="list-style-type: none"> HHS: Hospitalized adult confirmed-positive COVID HHS: Total hospitalized adult suspected /confirmed

P3	Patients	#Hospitalized peds confirmed COVID <= #Hospitalized Peds suspected/confirmed	The number of confirmed pediatric patients cannot be greater than the number of suspected and confirmed pediatric patients.	<ul style="list-style-type: none"> HHS: Hospitalized peds confirmed-positive COVID HHS: Hospitalized Peds suspected /confirmed COVID
P4	Patients	#Hospitalized and ventilated COVID patients <= #Mechanical ventilators in use	The number of hospitalized and ventilated COVID patients cannot be greater than the total number of ventilators in use.	<ul style="list-style-type: none"> HHS: Hospitalized and ventilated COVID patients HHS: Mechanical ventilators in use
P5	Patients	#Hospitalized ICU adult confirmed COVID <= #Adult ICU Bed Occupancy	The number of confirmed adult ICU patients cannot be greater than the number of occupied ICU beds.	<ul style="list-style-type: none"> HHS: Hospitalized ICU adult confirmed-positive COV HHS: Adult ICU Bed Occupancy
P6	Patients	#Hospitalized ICU adult confirmed COVID <= #Hospitalized adult confirmed COVID	The number of confirmed adult ICU patients cannot be greater than the number of confirmed adult patients.	<ul style="list-style-type: none"> HHS: Hospitalized ICU adult confirmed-positive COV HHS: Hospitalized adult confirmed-positive COVID
P7	Patients	#Hospital Onset <= #All Hospital Beds	The number of hospital-onset patients cannot be greater than the total number of beds.	<ul style="list-style-type: none"> HHS: Hospital Onset HHS: All Hospital Beds
P8	Patients	#ED/Overflow and Ventilated <= #ED/Overflow	The number of ventilated ED overflow COVID patients cannot be greater than the total number of ED overflow COVID patients.	<ul style="list-style-type: none"> HHS: ED /Overflow and Ventilated HHS: ED/Overflow
P9	Patients	#Prev Day COVID Related ED Visits <= #Prev Day Total ED Visits	The number of COVID-related ED visits in the last 24 hours cannot be greater than the number of ED visits in the last 24 hours.	<ul style="list-style-type: none"> HHS: Prev Day COVID Related ED Visits HHS: Prev Day Total ED Visits
P10	Patients	#Total ICU adult suspected/confirmed <= #ICU Bed Occupancy	The number of ICU adult suspected or confirmed positive COVID patients cannot be greater than the number of occupied ICU beds.	<ul style="list-style-type: none"> HHS: Total ICU adult suspected /confirmed positive HHS: ICU Bed Occupancy
P11	Patients	#Hospitalized ICU adult confirmed COVID <= #Total ICU adult suspected/confirmed	The number of confirmed adult ICU patients cannot be greater than the number of ICU adult suspected or confirmed positive COVID patients.	<ul style="list-style-type: none"> HHS: Hospitalized ICU adult confirmed-positive COV HHS: Total ICU adult suspected /confirmed positive
P13	Patients	#Hospitalized ICU adult confirmed COVID <= #Confirmed COVID in ICU	The number of confirmed adult ICU patients cannot be greater than the total number of confirmed ICU patients.	<ul style="list-style-type: none"> HHS: Hospitalized ICU adult confirmed-positive COV HHS: Confirmed COVID in ICU

P14	Patients	#Hospitalized adult confirmed COVID <= #Hospitalized adult confirmed COVID + #Hospitalized pediatric confirmed COVID	The number of confirmed adult COVID patients cannot be greater than the total number of confirmed COVID patients.	<ul style="list-style-type: none"> HHS: Hospitalized adult confirmed-positive COVID HHS: Hospitalized ped confirmed-positive
P17	Patients	#Hospitalized adult confirmed COVID + #Hospitalized pediatric confirmed COVID <= 9999	The total number of COVID confirmed patients cannot be greater than 9999.	<ul style="list-style-type: none"> HHS: Hospitalized adult confirmed-positive COVID HHS: Hospitalized ped confirmed-positive
P18	Patients	#Total confirmed COVID in ICU <= 9999	The total number of COVID confirmed patients in the ICU cannot be greater than 9999.	HHS: Confirmed COVID in ICU
P19	Patients	#Hospitalized ICU adult confirmed COVID <= 9999	The number of COVID confirmed adult patients in the ICU cannot be greater than 9999.	HHS: Hospitalized ICU adult confirmed-positive COV
P20	Patients	#Total suspected/confirmed patients in ICU <= 9999	The total number of COVID suspected patients in the ICU cannot be greater than 9999.	HHS: Suspected /confirmed COVID in ICU
P21	Patients	#Total ICU adult suspected/confirmed - #Hospitalized ICU adult confirmed COVID <= 9999	The number of COVID suspected adult patients in the ICU cannot be greater than 9999.	<ul style="list-style-type: none"> HHS: Hospitalized ICU adult suspected /confirmed COV HHS: Hospitalized ICU adult confirmed-positive COV
P22	Patients	#Prev Day Total ED Visits <= 9999	The number of ED visits in the last 24 hours cannot be greater than 9999.	HHS: Prev Day Total ED Visits
P23	Patients	#Prev Day Deaths <= 9999	The number of deaths in the last 24 hours cannot be greater than 9999.	HHS: Prev Day Total Deaths
P24	Patients	#Total hospitalized adult suspected/confirmed is required.	The number of adult suspected or confirmed patients is required.	HHS: Total hospitalized adult suspected /confirmed
P25	Patients	#Hospitalized adult confirmed COVID is required.	The number of adult confirmed COVID is required.	HHS: Hospitalized adult confirmed-positive COVID
P26	Patients	#Hospitalized Peds suspected/confirmed is required.	The number of pediatric suspected or confirmed patients is required.	HHS: Hospitalized Peds suspected /confirmed
P27	Patients	#Hospitalized peds confirmed COVID is required.	The number of pediatric confirmed COVID is required.	HHS: Hospitalized peds confirmed-positive COVID
P30	Patients	#Total hospitalized adult suspected/confirmed <= #All Hospital Inpatient Beds Occupancy	The number of suspected/confirmed adult patients cannot be greater than the number of occupied inpatient beds.	<ul style="list-style-type: none"> HHS: Total hospitalized adult suspected /confirmed HHS: All Hospital Inpatient Beds Occupancy

P31	Patients	#Previous Day's Confirmed Admits by Age (ALL + Peds) <= #All Hospital Inpatient Beds Occupancy	The number of confirmed COVID patients admitted in the last 24 hours cannot be greater than the number of occupied beds.	<ul style="list-style-type: none"> • HHS: Prev day adult admits confirmed age unknown • HHS: Prev day adult admits confirmed COV 18-19 • HHS: Prev day adult admits confirmed COV 20-29 • HHS: Prev day adult admits confirmed COV 30-39 • HHS: Prev day adult admits confirmed COV 40-49 • HHS: Prev day adult admits confirmed COV 50-59 • HHS: Prev day adult admits confirmed COV 60-69 • HHS: Prev day adult admits confirmed COV 70-79 • HHS: Prev day adult admits confirmed COV 80+ • HHS: Prev day Peds Confirmed COV Admits • HHS: All Hospital Inpatient Beds Occupancy
P32	Patients	#Total hospitalized adult suspected/confirmed + #Hospitalized Peds suspected/confirmed <= #All Hospital Inpatient Beds Occupancy	The number of adult and pediatric confirmed/suspected patients cannot be greater than the number of occupied beds.	<ul style="list-style-type: none"> • HHS: Total hospitalized adult s uspected /confirmed • HHS: Hospitalized Peds Confirmed /Suspected COVID • HHS: All Hospital Inpatient Beds Occupancy
P33	Patients	#Hospitalized and ventilated COVID patients <= #Total hospitalized adult suspected/confirmed + #Hospitalized Peds suspected/confirmed	The number of ventilated COVID patients cannot be greater than the number of suspected/confirmed COVID patients.	<ul style="list-style-type: none"> • HHS: Hospitalized and ventilated COVID patients • HHS: Total hospitalized adult suspected /confirmed • HHS: Hospitalized Peds Confirmed /Suspected COVID

P34	Patients	#Previous Day's Suspected Admits by Age (ALL + Peds) <= #All Hospital Inpatient Beds Occupancy	The number of suspected COVID patients admitted in the last 24 hours cannot be greater than the number of occupied beds.	<ul style="list-style-type: none"> HHS: Prev day adult admits suspected age unknown HHS: Prev day adult admits suspected COV 18-19 HHS: Prev day adult admits suspected COV 20-29 HHS: Prev day adult admits suspected COV 30-39 HHS: Prev day adult admits suspected COV 40-49 HHS: Prev day adult admits suspected COV 50-59 HHS: Prev day adult admits suspected COV 60-69 HHS: Prev day adult admits suspected COV 70-79 HHS: Prev day adult admits suspected COV 80+ HHS: Prev day Peds suspected COV Admits HHS: All Hospital Inpatient Beds Occupancy
P122	Patients	#ICUOccupied <= #Hospital_Inpatient_Bed_Occupancy	The number of occupied ICU beds cannot be greater than the total number of occupied inpatient beds.	<ul style="list-style-type: none"> HHS: ICU Bed Occupancy HHS: All Hospital Inpatient Beds Occupancy
P123	Patients	#Influenza_COV_Conf_Prev_Day_Deaths <= #numConfC19PrevDied	The previous day's deaths of patients with both influenza and COVID cannot be greater than the previous day's deaths due to COVID.	<ul style="list-style-type: none"> HHS: Influenza and COV Conf Prev Day's Deaths HHS: Previous Day Deaths
P124	Patients	#Influenza_COV_Conf_Prev_Day_Deaths <= #Influenza_Confirmed_Prev_Day_Deaths	The previous day's deaths of patients with both influenza and COVID cannot be greater than the previous day's deaths due to influenza.	<p>HHS: Influenza and COV Conf Prev Day's Deaths</p> <p>HHS: Influenza Confirmed Prev Day's Deaths</p>

Remdesivir

	Group	Rule (ID Expression)	User-Friendly Validation Message	Standard Status Types
R1	Remdesivir	#Remdesivir Remaining <= 999,999	The current inventory of Remdesivir cannot be greater than 999,999.	HHS: Remdesivir
R2	Remdesivir	#Remdesivir Used <= 999,999	The number of Remdesivir doses used on the previous day cannot be greater than 999,999.	HHS: Remdesivir