



GNYHA LESSONS LEARNED/PREPARATION FOR FUTURE COVID-19 WAVES

Topic: Hospital and Health System Data
Collection & Data Use



PURPOSE

This document details the data that was requested or required of hospitals or sub-sets of hospitals in New York State during the first several months (February-May) of the COVID-19 response. It also reviews the various data collection systems used.

Recognizing the critical role of data collection, data analysis, and situational awareness in the COVID-19 response—and all emergency responses—this document also offers general principles and recommendations. We hope it helps facilitate discussion and collaborative planning in the intermediate and long-term phase of the response.

GENERAL PRINCIPLES

GNYHA notes the following general principles as guidance for data collection during the remainder of the COVID-19 response and future emergency response events.

- The burden of data collection on hospitals and health systems should be balanced with the need for data to characterize impacts to the health system and inform operational actions of key response partners.
- When collecting data via a survey format, questions should be constructed carefully and vetted by a small subset of users when possible to ensure the reliability and usability of the reported data. The requester of the data should have a clear vision of how each data element will be used, including potential uses for policy development, and this vision should be shared with the respondents so they can provide the most accurate information.
- While not always possible, alignment (including standardized definitions) and reduction of redundancy among data collection systems should be a goal (i.e., across local, State, Federal, and non-governmental systems).
- Collected data should be visible to stakeholders at multiple levels, including hospital and health system leaders, associations, and government agency staff, providing a common operating picture to inform current and future decision-making and actions.
- The frequency of data collection should be reviewed regularly. During crisis situations, daily data collection may be necessary to monitor potential issues and risks to the health care system. However, as the situation stabilizes and potential risks reduced, data collection frequency should be reduced to decrease the burden.
- Continuous feedback structures should be used to improve data quality. Best practices include calls or webinars to introduce new data elements, FAQs and other documentation provided to respondents, office hours for questions and troubleshooting, and reports that identify outlier and missing values to prompt respondents to review and correct potential erroneous or missing data.

Lessons Learned: Hospital and Health System Data Collection & Data Use

DATA COLLECTION SYSTEMS USED DURING COVID-19 WAVE I

Data System	Owner	Description	Data Collection - Content	Data Collection - Timeline	Data Collection - Frequency	Data Providers	Stakeholder Access
Health Electronic Response Data System (HERDS)	New York State Department of Health (DOH)	System used to collect information from health care facilities across the state during emergencies.	Started as an enhanced flu survey and grew over time; now includes questions about bed capacity and availability, specimen collection, ventilators, BiPAP machines, portable cardiac monitors, supplies on hand and burn rates, supply orders, confirmed COVID patient counts, COVID patient demographics and intensive care unit (ICU)/ventilator needs, and staff and patient antibody and diagnostic testing.	COVID questions began to be added in late February	Daily *PPE questions now limited to three times weekly	All New York State hospitals	DOH and local health departments; share daily results with health care associations
Sit Stat	GNYHA	Web-based survey tool used to collect information from hospitals immediately preceding an expected event and/or during an emergency event. The system enables GNYHA to capture information on hospital impacts, as well as current and anticipated needs.	Hospitals: variety of questions that have been adjusted over time; now includes questions related to emergency department (ED) volume, ED boarding, in-patient surge, staffing shortages; a subset of data collected in HERDS related to COVID patient numbers and bed availability is also being displayed in the system Alternate Care Sites: operational status, COVID status criteria, beds (capacity, census, and availability), number of confirmed COVID patients, planned discharges	3/9/2020 - ongoing	Daily	115 New York State hospitals participating in GNYHA Sit Stat program	GNYHA, participating member hospitals and health systems, DOH, DOHMH, NYCEM, WC OEM, NYC FDNY, OCME, FEMA Region II
Survey Monkey	New York City Office of the Chief Medical Examiner (OCME)	Survey created by the New York City OCME to understand decedent census counts in hospital's in-house morgues and body collection points (BCPs).	Survey started asking census counts within facility morgues and if a facility had requested a BCP. Over time, the survey frequently added and adjusted questions based on the need and growing fatalities. The survey now asks information about a facility's in-house morgue census, BCPs, number of each type of case in hospital's custody (medical examiner, unclaimed, claimed), amount of time cases have been in facility's custody (in days), body bags, funeral home involvement, and status of paperwork.	3/27/2020 - ongoing	Daily	All New York City hospitals; over time began to include surge sites (e.g., Javits)	OCME; share daily results with GNYHA, H+H, NYCEM, City Hall
National Health care Safety Network (NHSN) - Acute Care Hospitals/ Facilities	Centers for Disease Control and Prevention (CDC)	National health care-associated infection hospital-acquired infection (HAI) tracking system through which hospitals are mandated by the Centers for Medicare & Medicaid Services (CMS) and New York State to submit	Patient Impact and Hospital Capacity: patients with suspected or confirmed COVID-19 (vented, hospital onset, deaths), inpatient beds (total and occupied), and number of mechanical ventilators (all and in-use). Health Care Worker Staffing: critical staffing	3/29/2020 - ongoing	Patient Impact and Hospital Capacity – daily	All hospitals nationwide	HHS, CDC's emergency response team for COVID efforts, FEMA and the White House Task Force;

Lessons Learned: Hospital and Health System Data Collection & Data Use

Data System	Owner	Description	Data Collection - Content	Data Collection - Timeline	Data Collection - Frequency	Data Providers	Stakeholder Access
(continued)		<p>HAI reporting. CDC developed three COVID-19 specific modules for acute care hospital/facilities:</p> <p>1) Patient Impact and Hospital Capacity, 2) Health care Worker Staffing, 3) Health care Supply</p>	<p>shortages today or in a week for: environmental services, nurses (RNs and LPNs), respiratory therapists, pharmacists and pharmacy techs, physicians, other licensed independent practitioners and temporary physicians, nurses, respiratory therapists or pharmacists, and other health care personnel.</p> <p>Health Care Supply: on-hand supply, re-use and extended use, and ability to obtain critical supplies (ventilators, N95 masks, other respirators, surgical masks, eye protection, gowns, gloves).</p>		Health Care Worker Staffing & Health Care Supply – recommended at least twice weekly; can be submitted daily		hospitals may confer rights to a third party allowing them to enter and pull down data
HHS Protect System—Tele-Tracking	Health and Human Services (HHS)	<p>System with several apps within it for different reporting requirements as per HHS. The TeleTracking portal provides an alternative reporting system to NHSN for Patient Impact and Hospital Capacity information.</p> <p>Teletacking is used for weekly data submission for Remdesivir distribution. Hospitals using the portal for daily reporting have fulfilled the weekly requirement. The portal also provided a one-time survey on ICU beds and COVID-19 admissions for the Provider Relief Fund.</p>	Patients with suspected or confirmed COVID-19 (vented, hospital onset, deaths), inpatient beds (total and occupied), and number of mechanical ventilators (all and in-use).	3/29/2020 - ongoing	Daily	All hospitals nationwide	HHS, FEMA, CDC's emergency response team for COVID efforts, and the White House Task Force
HHS Protect System - Laboratory Testing	HHS	System with several apps within it for different HHS reporting requirements.	Diagnostic tests ordered and test results (all, positive, and negative).	3/29/2020 - ongoing	Daily	All hospitals nationwide with in-house laboratory testing or commercial testing outside of specific laboratories	HHS, FEMA, CDC's emergency response team for COVID efforts, and the White House Task Force
FDA-CDER COVID-19 Critical Care Drug Monitoring Survey Portal	Food and Drug Administration (FDA)	System for collecting data on the critical care drug list and the FDA drug shortages list.	Number of beds (total and ICU), number of COVID-19 patients in the ICU (ventilated and not ventilated), number of days on-hand supply for each critical care drug listed, an optional survey collecting on-hand days supply for each drug on the FDA drug shortages list.	5/11/2020 - ongoing	Weekly	All hospitals nationwide	FDA

Lessons Learned: Hospital and Health System Data Collection & Data Use

DATA COLLECTED

The chart below summarizes the data collected from February through May 2020. [Appendix A](#) details the data collected via the New York State DOH HERDS platform.

Domains	# of Questions
Total Questions	270
Direct Answer Questions	
Antibody & Diagnostic Testing	34
Beds	6
COVID Patients	17
Facility Information	13
PPE	85
Report Submit & Contact Info	10
Renal Replacement Therapy (RRT)	40
Specimen Collection Site	8
Ventilators	26
Patient-Level Questions (date added)	
Patient Demographics (March 15)	6
Additional Questions – Decedents (March 25)	11
Additional Questions – Hospitalized Patients (May 3)	14

USE OF GNYHA SIT STAT 2.0 SYSTEM DURING COVID-19

A key feature of GNYHA's Sit Stat 2.0 system is data visibility. Using system "views," participating hospitals and agency partners can review key operational data. Additionally, GNYHA has focused on building a culture of data sharing among participants.

Brief Daily Survey

In early March, GNYHA began asking member hospitals that participate in the Sit Stat 2.0 initiative to complete a daily four-question survey on facility operations and impacts. As the situation evolved, GNYHA adjusted existing questions and added new ones. A screenshot of the current New York State Daily Report view, which now contains six questions, can be seen on the following page. [Appendix B](#) details a complete list of questions asked via the Sit Stat 2.0 Daily Report.

Lessons Learned: Hospital and Health System Data Collection & Data Use

EMResource | Samia McEachin (smceachin) | GNYHA SitStat 2.0 | Log Out | TLP: AMRFR

Search | Help | Contact | JUVARE

Setup | View | Other Regions | Event | Preferences | Form | Report | Regional Info | IM

NYS CoVID-19 Sit Stat Report

Acute Care Hospitals	ED Volume	# ED Boarding	# ED Boarding - Intubated	Inpatient Medical Surge	Use of Surge Space	Staffing Status	Comment	Last Update	By User
AMC - Albany Medical Center	Less Busy	--	--	No	No	Normal / No Shortages		24 Mar 2020 16:57	Scott Heller
AMC - Columbia Memorial Hospital	--	--	--	--	--	--			
AMC - Saratoga Hospital	Less Busy	--	--	No	No	Normal / No Shortages		02 Apr 2020 11:35	Charlie Friderici
Blythedale Children's Hospital	Not Applicable	0	--	No	No	Normal / No Shortages	No Emergency Department	12 May 2020 08:10	John Flanagan
BronxCare Hospital - Concourse (23)	Busier - Impact	0	0	No	No	Normal / No Shortages	Implemented Surge Bed Plan	11 May 2020 09:59	Elroy Fields
BronxCare Hospital - Fulton (24)	Normal	0	0	No	No	Normal / No Shortages		11 May 2020 09:59	Elroy Fields
Calvary Hospital	Not Applicable	--	--	No	Yes	Minor / Anticipated	No Emergency Department Non-tradition...	27 Apr 2020 15:30	Kiran Mody
CHSLI - Good Samaritan Hospital M.C.	Less Busy	0	--	Yes	Yes	Normal / No Shortages	ED volume continues to normalize Patien...	29 Apr 2020 11:18	Louis Errichiello
CHSLI - Mercy Medical Center (68)	Normal	--	--	No	No	Normal / No Shortages		12 May 2020 08:14	Gerard Lockwood
CHSLI - St Francis The Heart Center (66)	Normal	1	0	No	Yes	Normal / No Shortages	We have converted our ED Holding Room...	10 May 2020 08:49	Andrew Kruzykowski
CHSLI - St. Catherine of Siena M.C.	Normal	0	0	No	Yes	Minor / Anticipated	Forward triage space erected outside eme...	08 May 2020 07:39	John Dembek
CHSLI - St. Charles Hospital	Normal	0	0	No	Yes	Minor / Anticipated	Forward triage space erected outside eme...	08 May 2020 07:39	John Dembek
CHSLI - St. Joseph Hospital	Less Busy	--	--	No	No	Normal / No Shortages		12 May 2020 07:42	Stephen Mority
EHS - St. John's Episcopal Hospital (40)	Busier - Impact	--	--	Yes	Yes	Normal / No Shortages	Admissions for transfer T5 ICU PACU, ...	16 Apr 2020 14:25	Sandra Chisolm
Health Quest - Northern Dutchess Hosp.	Normal	0	0	No	No	Normal / No Shortages		11 May 2020 12:38	Joseph Stevens
Health Quest - Putnam Hospital Center	Normal	--	--	No	Yes	Minor / Anticipated	2nd Floor Surge is up and running. Ancil...	07 Apr 2020 08:26	James Maxwell
Health Quest - Sharon Hospital	--	--	--	--	--	--			
Health Quest - Vassar Brothers M.C.	Less Busy	0	0	No	Yes	Normal / No Shortages	We have two surge areas open to accom...	12 May 2020 08:51	Lisa Corcoran
Hospital for Special Surgery	Not Applicable	0	0	No	No	Normal / No Shortages	No Emergency Department N/A - No ED ...	11 May 2020 08:22	Rosemary Hartofitis
Maimonides Medical Center (53)	Normal	--	--	No	Yes	Normal / No Shortages	Converted PACU to ICU Space	05 May 2020 08:38	William Howe
MediSys - Flushing Hospital M.C. (33)	Less Busy	1	0	No	Yes	Moderate Shortages	Consolidated COVID Patients to specific u...	12 May 2020 08:32	Melissa Nolan
MediSys - Jamaica Hospital M.C. (34)	Less Busy	5	1	No	Yes	Moderate Shortages	Consolidated COVID Patients to specific u...	12 May 2020 08:36	Melissa Nolan
Mem Hosp for Cancer & Allied Dis. (08)	Less Busy	0	0	No	Yes	Normal / No Shortages	Added 23 critical care beds	12 May 2020 08:22	Jacob Neufeld
Montefiore - Children's (CHAM) (29P)	Normal	1	0	No	No	Normal / No Shortages		12 May 2020 08:33	Michael Mocoluski
Montefiore - Einstein Camp (Weiler) (22)	Normal	4	0	No	No	Normal / No Shortages		12 May 2020 08:34	Michael Mocoluski

Display of Key HERDS Data Points

For additional situational awareness GNYHA began displaying a subset of HERDS data in mid-March for New York City hospitals in a dedicated Sit Stat view. This view features five data points detailing COVID-19 patient numbers and bed availability at each hospital. In early April, GNYHA started accessing statewide HERDS data and developed a separate Sit Stat HERDS data view for non-New York City hospitals that participate in the Sit Stat initiative. This view groups hospitals by county and displays the same data points shown in the New York City view. A screenshot of this New York State view is below.

EMResource | Samia McEachin (smceachin) | GNYHA SitStat 2.0 | Log Out | TLP: AMRFR

Search | Help | Contact | JUVARE

Setup | View | Other Regions | Event | Preferences | Form | Report | Regional Info | IM

NYS CoVID-19 HERDS Data - 5/10

Acute Care Hospitals	County	HERDS - Confirmed CoVID-19	HERDS - Confirmed CoVID-19 - ICU	HERDS - Confirmed CoVID-19 - Intubated	HERDS - Available: Staffed	HERDS - Available: ICU
AMC - Albany Medical Center	Albany	44	11	5	316	60
AMC - Columbia Memorial Hospital	Columbia	6	2	0	57	4
WMC Health - Margaretville Hospital	Delaware	0	0	0	17	0
Health Quest - Northern Dutchess Hosp.	Dutchess	0	0	0	24	4
Health Quest - Vassar Brothers M.C.	Dutchess	42	13	13	19	8
WMC Health - Mid-Hudson Regional Hosp.	Dutchess	15	7	6	75	12
CHSLI - Mercy Medical Center (68)	Nassau	44	3	3	61	14
CHSLI - St Francis The Heart Center (66)	Nassau	74	29	22	131	35
CHSLI - St. Joseph Hospital	Nassau	20	9	4	77	5
Mount Sinai South Nassau (52)	Nassau	79	18	16	163	21
Nassau University Medical Center (82)	Nassau	47	26	17	118	8
Northwell - Glen Cove Hospital	Nassau	49	8	5	60	6
Northwell - L.I.J. Valley Stream (74)	Nassau	47	11	10	15	4
Northwell - North Shore U. Hosp. (78)	Nassau	182	77	65	213	36
Northwell - Plainview Hospital	Nassau	42	12	5	83	26
Northwell - Syosset Hospital	Nassau	0	0	0	67	6
NYU Langone - Winthrop Hospital (67)	Nassau	137	58	50	179	40
Niagara Falls Memorial Medical Center	Niagara	5	2	1	75	4
Montefiore - St Luke's Cornwall/Newburgh	Orange	38	18	15	67	13
WMC Health - Bon Secours Community Hosp.	Orange	7	3	3	58	18
WMC Health - St. Anthony Community Hosp.	Orange	1	0	0	14	10
Health Quest - Putnam Hospital Center	Putnam	12	0	0	73	19
Montefiore - Nyack	Rockland	72	24	24	103	26
WMC Health - Good Samaritan Reg. M.C.	Rockland	47	15	10	48	15
AMC - Saratoga Hospital	Saratoga	5	2	0	82	22

Alternate Care Site Information

As alternate care sites went online to accommodate hospital surge, there was a growing need for situational awareness about these spaces. GNYHA partnered with both government- and hospital-operated sites to establish regular reporting. In early April, the COVID-19 Surge Operations View in Sit Stat was developed to track the operational status, census, and availability at each of these sites. Sites were asked to provide updated information at least once each day. A screenshot of this view can be seen below.

Coordination Center		Operational Status		Hours of Operation				Call Center Phone #					
New York Coordination Center		Fully Operational		7am-4pm				212-542-1700					
Alternate Care Sites													
	Borough	Operational Status	CoVID	Staffed Capacity	Census - Total	Census - ICU	Availability - Total	Availability - ICU	Confirmed CoVID Positive	Today's Anticipated Discharges	Comment	Last Update	
Javits New York Medical Station	Manhattan	Closed	CoVID+ Only	0	0	0	0	0	0	0		12 May 2020 10:48	
USNS Comfort	Manhattan	Closed	Any CoVID Status	0	0	0	0	0	0	0		12 May 2020 10:48	
Summary													
N/A		N/A		0		0		0		0			
Hospital-Operated Sites													
	Borough	Operational Status	CoVID	Staffed Capacity	Census - Total	Census - ICU	Availability - Total	Availability - ICU	Confirmed CoVID Positive	Today's Anticipated Discharges	Comment	Last Update	
Maimonides - Boro Park	Brooklyn	Opening Pending	Non-CoVID	0	0	0	0	0	0	0		12 May 2020 10:48	
Maimonides - Crown Heights	Brooklyn	Partially Operational	CoVID+ Only	50	3	0	47	0	1	2		12 May 2020 08:54	
Mount Sinai - Samaritan's Purse	Manhattan	Closed	CoVID+ Only	0	0	0	0	0	0	0		12 May 2020 10:48	
NYC H+H - Billie Jean King Tennis Center	Queens	Partially Operational	CoVID+ Only	100	10	1	90	19	9	3	121 med/surg + 20 ICU	07 May 2020 06:35	
NYP - Ryan Larkin Field Hospital	Manhattan	Partially Operational	CoVID+ Only	73	17	0	56	0	17	0		12 May 2020 10:48	
Summary													
N/A		N/A		223		30		1		193		27	5
Alternate Care Sites													
	Operational Status	CoVID	Staffed Capacity	Census Total	Census - ICU	Availability - Total	Availability - ICU	Confirmed CoVID Positive	Today's Anticipated Discharges	Comment	Last Update		
NYC H+H - Roosevelt Island Medical Ctr	Fully Operational	Any CoVID Status	200	99	0	251	0	71	5		11 May 2020 10:36		
Summary													
N/A		N/A		200		99		0		251		71	5

NYC OCME DAILY MORGUE SURVEY

OCME developed a daily survey using Survey Monkey to collect information on in-house morgues and BCPs for all hospitals located in New York City. Through this survey, OCME requested data on decedent census counts, length of time in the facility's custody, supply of body bags, and coordination with funeral homes, among other indicators. The data collected has been used to help prioritize which hospitals are visited by New York City's interagency BCP strike force; the collected data also informs the allocation of other resources.

FEDERAL REPORTING

In late March, hospitals across the nation were asked to begin voluntary reporting to the Federal government. The White House Coronavirus Task Force, the Federal Emergency Management Agency (FEMA), and HHS requested daily data on COVID-19 cases, hospital capacity, and in-house hospital COVID-19 laboratory testing and results. Data can be submitted through multiple portals; states and third-party vendors also can submit data on behalf of hospitals, pending FEMA regional administrator approval. The daily hospital capacity and utilization data must be submitted weekly via the HHS Protect System TeleTracking portal to facilitate distribution of the drug Remdesivir. Additionally, a subset of the data was included following an ad-hoc request from HHS to inform allocation of hotspot funding. In mid-April, the FDA requested hospitals to submit weekly information on critical care drug inventories and drugs on the FDA drug shortage list via a new portal specifically for this. Federal reporting continues to evolve as different agencies seek data to guide resource allocation and to understand disease trends. Because there is little coordination among agencies, hospitals get redundant requests for information and are required to use distinct data collection portals.

HOW DATA SUPPORTS RESPONSE OPERATIONS AND DECISION-MAKING

The chart on the following page presents the various ways data collected via HERDS and Sit Stat 2.0 has been used throughout the response, based on GNYHA staff observations.

Lessons Learned: Hospital and Health System Data Collection & Data Use

System	Uses
DOH HERDS	
State and City level	Inform PPE and vent allocation
Department of Defense (DoD)/US Public Health Service	Inform placement of DoD surge staff in hospitals; selection of hospitals for patient pull teams
DOH Health care Capacity Coordination Center	Monitor overall status of hospitals
All stakeholders	Understand emerging issues, including vent and vent component availability and needs; inpatient dialysis needs; testing capacity and approaches
Sit Stat 2.0	
DOH Health care Capacity Coordination Center	Monitor overall status of hospitals
GNYHA	Monitor overall status of and impacts to member hospitals Identify target facilities for decanting to Veterans Affairs (VA) facilities Inform staffing and supplies outreach to members
Fire Department of the City of New York (FDNY)	Understand ED volume and likelihood of diversion requests Anticipate inter-facility transport requests
Hospitals	Understand impacts of event on neighboring facilities Access information on alternate care sites

RESPONSE RATES AND DATA QUALITY

DOH HERDS

Throughout the COVID-19 response, all hospitals have been required to complete the HERDS survey. Once a daily schedule was established with a set release time (12:00 noon) and submission deadline (4:00 p.m.), DOH asked for help from associations to follow up with non-respondents at 3:00 p.m. each day.

DOH staff also started making evening calls to hospitals that did not complete the day's survey or had provided data that was outside the normal range or that was confusing. These significant efforts by DOH and the associations achieved high response rates.

Sometimes, most notably when introducing questions on dialysis for critical care patients, DOH shared draft questions in advance. This enabled the associations to vet the questions with hospital clinicians, and it ultimately resulted in improved data quality and improved utility of the data for informing government actions.

Sit Stat 2.0

Because Sit Stat 2.0 is a voluntary program, not all participating hospitals provided information each day. Most hospitals completed at least some of the questions daily, providing sufficient information for trend analysis and to inform GNYHA and response partner actions.

RECOMMENDATIONS

Below GNYHA offers near-term and long-term recommendations to improve data collection for the ongoing monitoring of the health care system in anticipation of a future wave. We look forward to discussing these ideas with response partners.

Lessons Learned: Hospital and Health System Data Collection & Data Use

HERDS Reporting

In the chart below, we outline by domain key details, suggestions, and discussion points for data collected through HERDS.

Domain	Purpose of Domain	Suggested Question Revisions	Question Comments	Suggested Frequency Revisions	Frequency Comments
Bed Information	<ol style="list-style-type: none"> 1) Determine overall capacity of health care system 2) Track ability of health care system to increase capacity as needed 3) Provide denominator for analysis of current hospital utilization 	Remove specific questions on psych beds	Do hospitals have to enter this information on every survey, or are their previous responses auto-filled?	<ol style="list-style-type: none"> 1) Suggest daily updates only when hospitals are surging their bed capacity 2) Suggest weekly updates when hospitals are no longer surging their bed capacity 	If hospital responses are auto-filled for editing, this is less critical. However, would still be helpful to establish a time period for expected updates.
Specimen Collection	Catalog hospital specimen collection processes	None	Do hospitals have to enter this information on every survey, or are their previous responses auto-filled?	Suggest weekly updates	If hospital responses are auto-filled for editing, this is less critical. However, would still be helpful to establish a time period for expected updates.
Ventilators and Other Special Equipment	<ol style="list-style-type: none"> 1) Track overall ventilator capacity for health care system 2) Track current ventilator availability to determine whether there may be ventilator shortages 3) Track what types of ventilators are in use in case ventilators from stockpiles need to be allocated 4) Track if alternatives to ventilators (such as BiPAPs) are being used to ventilate patients 	<p>Streamline so that only two questions are asked:</p> <ol style="list-style-type: none"> 1) How many devices does your facility have that can be used to ventilate adult patients? 2) How many of the above devices are currently in use? 	<ol style="list-style-type: none"> 1) The granularity of the existing questions adds to hospital burden without significantly increasing actionability of the data 2) The categories of ventilators has led to confusion over interpretation and analysis. Less granular questions will make it clearer to everyone what is being used to calculate ventilator capacity. 3) If data from these questions is not sufficient to analyze situation, new questions can be added 	<ol style="list-style-type: none"> 1) Suggest daily updates only when ventilator capacity is a significant concern 2) Suggest weekly updates when ventilator capacity is not a significant concern 	Could potentially establish criteria where systemwide availability would trigger more frequent updates.
PPE Supplies	<ol style="list-style-type: none"> 1) Track each facility's use of supplies to estimate quantities needed to adequately supply health care system 2) Monitor facilities to determine when they could potentially run out of supplies 3) Understand specific supplies used so that supplies can be allocated from stockpile as needed 	<p>Streamline in two ways:</p> <ol style="list-style-type: none"> 1) Reduce questions by supply type to the following: Approximately how many days of each supply does your facility currently have available? 2) Make supply categories less granular by collapsing these categories: gloves, gowns, face coverings 	<ol style="list-style-type: none"> 1) Streamlined questions will reduce burden while getting at most critical question, days of supply on hand. This will determine if hospitals are running low on supplies and also determine if hospitals are building up supply inventory. 2) Detailed breakouts of supply types are unnecessary for determining the above 	<ol style="list-style-type: none"> 1) Suggest more regular updates (daily or three times/week) only when supplies are a significant concern 2) Suggest weekly updates when supplies are not a significant concern 	Could potentially establish criteria where systemwide availability would trigger more frequent updates.

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Purpose of Domain	Suggested Question Revisions	Question Comments	Suggested Frequency Revisions	Frequency Comments
COVID-19 Patient Information	<ol style="list-style-type: none"> 1) Track overall number and age breakdown of patients hospitalized for COVID-19 2) Track new hospitalizations to determine trend of new hospitalizations 3) Track discharges and deaths to monitor hospital throughput and morbidity 4) Track number of ICU and intubated patients to monitor hospital capacity and analyze severity of hospitalizations 	<ol style="list-style-type: none"> 1) Combine questions about new admissions and new confirmed since last report into one question: Since your last report how many new confirmed positive COVID-19 patients are now included in your hospitalization total? 2) Clarify intubation question so that it does not require patients to be in ICU 3) Remove question on cumulative deaths since this can be tracked from daily submissions 4) Review all questions to determine which have not been used in analysis of hospitalizations. Remove any questions that are not currently used in reporting or analysis. 	<p>Even if it would make sense to revise questions more generally, need to determine if:</p> <ol style="list-style-type: none"> 1) Question revisions hinder ability to longitudinally track this data 2) Question revisions interfere with existing hospital processes to collect this data 3) All current questions ask for information on confirmed cases only. Do we also want to collect suspected cases (either separately or combined with confirmed cases)? 	None	We recognize that this data should be captured on a daily basis for the foreseeable future
COVID-19 Confirmed Positive Patient Deaths	Collect surveillance information on COVID-19 patient deaths				Will hospitals still be required to submit this data for all deaths on an ongoing basis?
COVID-Associated Hospitalizations	Given the downward slope of new COVID cases, collect information on the source of new COVID cases to better understand the current source of spread			Suggest removing and potentially adding again as one-time survey to see if sources have changed	Data submission served to provide context for new COVID-19 cases, but is not necessary to continue to track. Given the continued decrease in new cases and the stability of submitted data, it is unlikely that this information will change substantially in the short run.
Antibody and Diagnostic Testing	<ol style="list-style-type: none"> 1) Determine extent to which hospitals are conducting antibody and diagnostic tests of their employees 2) Track increase of antibody and diagnostic testing of employees over time 3) Collect basic information on type of testing and laboratory processing 4) Determine extent to which hospitals are conducting antibody and diagnostic tests on their patients and non-patient/non-employees 		We believe these questions could be streamlined, but would like to better understand the goals of this data collection and what information is required to be trended over time.		After refining the goals for these questions, we believe the frequency should be revisited as well.

Data Visibility

To make data visible to all stakeholders to create a common operating picture, GNYHA can work with DOH to display all or a subset of questions in an easily accessible Sit Stat view. If DOH is interested, GNYHA can explore bringing ALL New York State hospitals into Sit Stat 2.0 in a limited fashion for the duration of the COVID-19 response, which would enable a complete response picture for monitoring and decision-making.

Question Creation and Vetting

To improve data quality, GNYHA suggests that when a new domain needs to be added to the HERDS survey, DOH should allow the associations to review and vet draft questions with hospital staff.

Opportunity to Align Questions with Federal Reporting Systems

Considering the increase and variability in Federal reporting, GNYHA believes it would be extremely difficult for DOH to achieve full alignment. We suggest focusing only on HHS's Daily Reporting. Using the document provided by The Healthcare Association of New York State (HANYNS) on April 24 (see [Appendix C](#)), DOH could create an optional module within HERDS COVID-19 reporting. Hospitals and health systems that choose to complete that module could send their data to HHS via DOH. Hospitals not completing the module could continue to submit data on their own.

Lessons Learned: Hospital and Health System Data Collection & Data Use

APPENDIX A: OVERVIEW OF DATA COLLECTED VIA THE DOH HERDS PLATFORM (FEBRUARY-MAY 2020)

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
A&DT	Antibody & Diagnostic Testing						
A&DT	1	1	1	Are your hospitals employees being tested for COVID-19 antibodies? (If NO, skip to questions 8-11 below)	4/25/20		
A&DT	1	1	2	Are you doing any COVID-19 antibody testing of employees in your hospital? (If NO, skip to questions 8-11 below)	4/25/20		
A&DT	1	1	3	Are you testing your Hospital employees for Covid-19 antibodies?	4/25/20		
A&DT	2	2	1	If yes, are you performing any COVID-19 antibody testing of employees onsite in your hospital laboratory?	4/25/20		
A&DT	2	2	2	Are you performing all antibody testing on staff in your own (hospital) laboratory?	4/25/20		
A&DT	2	2	3	If yes, are you testing your employees using your own lab or are you using an outside lab?	4/25/20		5/5/20
A&DT	3	3	1	If no, please list the names of laboratory(s) you have used OR currently are using to conduct this testing? (please do not abbreviate laboratory names)	4/25/20		
A&DT	3	3	2	If outside lab, what lab are you using?	4/25/20		
A&DT	4	4	0	What antibody test are you using?	5/5/20		
A&DT	5	5	1	Do you expect to test your entire staff?	4/25/20		
A&DT	5	5	2	Are you testing all your employees or just some?	4/25/20		5/5/20
A&DT	6	6	0	If just some, who are you testing?	5/5/20		
A&DT	7	7	0	How many employees will you be testing overall?	5/5/20		
A&DT	8	8	0	If you are not testing any of your hospital employees, please indicate why:	5/5/20		
A&DT	9	9	0	If you selected Other reason for not testing your hospital employees, please provide the reason here:	5/5/20		
A&DT	10	10	1	If yes, how many employees did you test today? (number only)	4/25/20		
A&DT	10	10	2	How many employees did you test in the last 24 hours?	4/25/20		5/5/20

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
A&DT	11	11	0	What is the total number of employees who have received positive antibody test results to date?	5/5/20		
A&DT	12	12	1	How many of your employees have been tested for COVID-19 antibodies cumulatively, to date, by your hospital laboratory and/or your reference laboratory? (number only)	4/25/20		
A&DT	12	12	2	How many people on your staff have been tested cumulatively, to date? (number only)	4/25/20		
A&DT	12	12	3	How many total employees have you tested for the antibodies to date?	4/25/20		
A&DT	13	13	0	When do you expect to complete testing of all of your employees?	4/25/20		
A&DT	14	14	0	Are you doing any antibody testing for anyone other than your own employees?	5/5/20		
A&DT	15	15	0	If yes to the above, who beside your employees are you testing?	5/5/20		
A&DT	16	16	0	If you selected Other above, please describe which others are being tested:	5/5/20		
A&DT	17	17	1	If you are not testing for anti-bodies other than your own employees, would you be willing to test for the anti-bodies for First Responders in your region?	5/5/20		
A&DT	17	17	2	Would you be willing to test for the antibodies for First Responders in your region?	5/5/20		5/7/20
A&DT	18	18	1	If you are not testing for anti-bodies other than your own employees, would you be willing to test for the anti-bodies for Essential Employees in your region?	5/5/20		
A&DT	18	18	2	Would you be willing to test for the antibodies for Essential Workers in your region?	5/5/20		5/7/20
A&DT	19	19	0	Are you testing your patients?	4/25/20	5/4/20	
A&DT	20	20	0	If yes, what are your criteria for selecting patients to test?	4/25/20	5/4/20	
A&DT	21	21	0	Are you testing non-patients and non-employees?	4/25/20	5/4/20	
A&DT	22	22	0	If yes, what are your criteria for selecting these individuals (non-employees, non-patients) for testing? Include any other details to give us insight into who else you are testing, such as any groups of individuals (e.g. local private employers, local first responders, etc.) that you may be testing.	4/25/20	5/4/20	
A&DT	23	23	1	Are your hospital's employees receiving diagnostic testing for COVID-19 ? (If NO, skip to questions 8-11 below)	4/25/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
A&DT	23	23	2	Are you doing any COVID-19 diagnostic testing of employees in your hospital? (If NO, skip to questions 8-11 below)	4/25/20		
A&DT	24	24	1	How many employees were tested today, by your hospital laboratory and/or your reference laboratory? (number only)	4/25/20		
A&DT	24	24	2	If yes, how many employees did you test today? (number only)	4/25/20		
A&DT	25	25	1	How many of your employees received diagnostic testing for COVID-19 cumulatively, to date, by your hospital laboratory and/or your reference laboratory? (number only)	4/25/20		
A&DT	25	25	2	How many people on your staff have been tested cumulatively, to date? (number only)	4/25/20		
A&DT	26	26	0	Do you expect to test your entire staff?	4/25/20		
A&DT	27	27	0	If yes, when do you expect to complete this by?	4/25/20		
A&DT	28	28	0	Are you performing all diagnostic testing on staff in your own (hospital) laboratory?	4/25/20		
A&DT	29	29	1	If you ARE NOT performing the COVID-19 diagnostic testing for employees onsite in your hospital laboratory, what reference laboratory(s) are you using to perform the diagnostic testing for you? (Please DO NOT use abbreviations when entering laboratory names if possible)	4/25/20		
A&DT	29	29	2	If no, please list the names of laboratory(s) you have used OR currently are using to conduct this testing? (please do not abbreviate laboratory names)	4/25/20		
A&DT	30	30	0	8. Are you testing your patients?	4/25/20		
A&DT	31	31	0	9. If yes, what are your criteria for selecting patients to test?	4/25/20		
A&DT	32	32	0	10. Are you testing non-patients and non-employees?	4/25/20		
A&DT	33	33	0	11. If yes, what are your criteria for selecting these individuals (non-employees, non-patients) for testing? Include any other details to give us insight into who else you are testing, such as any groups of individuals (e.g. local private employers, local first responders, etc.) that you may be testing"	4/25/20		
A&DT	34	34	0	Do you have any additional comments to add about antibody or diagnostic testing?	4/25/20		
BEDS	Beds						
BEDS	35	1	1	Enter the total number of certified and staffed beds (including ICU/Psych, etc) at the facility	3/17/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
BEDS	35	1	2	Enter the total number of staffed beds (including ICU/Psych, etc) at the facility	3/17/20		
BEDS	36	2	1	Enter the total number of certified and staffed beds (including ICU/Psych/etc) at the facility that are CURRENTLY available	3/17/20		
BEDS	36	2	2	Enter the total number of staffed beds(including ICU/Psych/etc) at the facility that are CURRENTLY Available	3/17/20		
BEDS	37	3	1	Enter the total number of certified and staffed ICU beds at the facility	3/17/20		
BEDS	37	3	2	Enter the total number of staffed ICU beds at the facility	3/17/20		
BEDS	38	4	1	Enter the total number of certified and staffed ICU beds at the facility that are CURRENTLY available	3/17/20		
BEDS	38	4	2	Enter the total number of staffed ICU beds at the facility that are CURRENTLY Available	3/17/20		
BEDS	39	5	0	Enter the total number of staffed Psych beds at the facility	3/30/20		
BEDS	40	6	0	Enter the total number of staffed Psych beds at the facility that are CURRENTLY Available	3/30/20		
CP	COVID Patients						
CP	41	1	0	How many confirmed positive COVID-19 patients does the facility have in either inpatient or observation beds at this time? Current COVID-19 patients: This total should be adjusted daily—by adding the number of new patients and subtracting the number of discharges and/or deaths that have occurred since the last report	3/17/20		
CP	42	2	0	How many confirmed, positive COVID-19 patients have been newly admitted since the last report?	3/17/20		
CP	43	3	0	How many of the positive COVID-19 patients were confirmed as positive AFTER admission AND since the last report?	3/17/20		
CP	44	4	0	How many confirmed positive COVID-19 patients have been discharged from the facility since the last report?	3/17/20		
CP	45	5	0	How many confirmed, positive COVID-19 patients are there in the ICU at this time?	3/17/20		
CP	46	6	0	Of the confirmed positive COVID-19 patients currently in the ICU, how many are intubated?	3/17/20		
CP	47	7	1	How many confirmed positive COVID-19 patient have expired in the facility with a Date of Death of 03/25/20 or later?	3/17/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
CP	47	7	2	How many confirmed positive COVID-19 patient have expired in the facility since the last report?	3/17/20		
CP	48	8	0	How many confirmed positive COVID-19 patients have expired at the facility thus far? (Total number of COVID-19 patient deaths that have occurred at the facility)	3/17/20		
CP	49	9	0	< 1 year	3/25/20		
CP	50	10	0	1-4 years	3/25/20		
CP	51	11	1	5-19 years	3/25/20		
CP	51	11	2	> 4-19 years	3/25/20		
CP	52	12	1	20-44 years	3/25/20		
CP	52	12	2	> 19-44 years	3/25/20		
CP	53	13	1	45-54 years	3/25/20		
CP	53	13	2	> 44-54 years	3/25/20		
CP	54	14	1	55-64 years	3/25/20		
CP	54	14	2	> 54-64 years	3/25/20		
CP	55	15	1	65-74 years	3/25/20		
CP	55	15	2	> 64-74 years	3/25/20		
CP	56	16	1	75-84 years	3/25/20		
CP	56	16	2	> 74-84 years	3/25/20		
CP	57	17	1	> 85 years old	3/25/20		
CP	57	17	2	> 84 years old	3/25/20		
FI	Facility Information						
FI	58	1	0	Region	3/17/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
FI	59	2	0	County	3/17/20		
FI	60	3	0	Reporting Organization	3/17/20		
FI	61	4	0	Reporting Organization ID	3/17/20		
FI	62	5	0	Reporting Organization Type	3/17/20		
FI	63	6	0	Data Entity	3/17/20		
FI	64	7	0	Address1	3/17/20		
FI	65	8	0	Address2	3/17/20		
FI	66	9	0	City	3/17/20		
FI	67	10	0	State	3/17/20		
FI	68	11	0	Zip Code	3/17/20		
FI	69	12	0	Phone Number	3/17/20		
FI	70	13	0	Fax Number	3/17/20		
PPE	Personal Protective Equipment (PPE)						
PPE	71	1	1	How many N-95 respirators does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	71	1	2	How many N-95 respirators does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	72	2	0	How many N-95 respirators does your facility use per day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	73	3	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	74	4	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	75	5	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	75	5	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	76	6	1	If Yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	76	6	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	77	7	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	78	8	1	How many surgical masks does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	78	8	2	How many surgical masks does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	79	9	0	How many surgical mask do you use per day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	80	10	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	81	11	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	82	12	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	82	12	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	83	13	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	83	13	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	84	14	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	85	15	0	Do you use goggles?	4/6/20		
PPE	86	16	1	How many pairs of goggles does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	86	16	2	How many pairs of goggles does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	87	17	0	How many pairs of goggles do you use per day (burn rate)?	4/3/20		
PPE	88	18	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	89	19	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	90	20	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	90	20	2	Are you expecting shipment(s) of this item from either commercial/vendor or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	91	21	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	91	21	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	92	22	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	93	23	1	How many surgical gowns does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	93	23	2	How many surgical gowns does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	94	24	0	How many surgical gowns do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	95	25	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	96	26	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	97	27	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	97	27	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	98	28	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	98	28	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	99	29	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	100	30	1	How many isolation gowns does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	100	30	2	How many isolation gowns does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	101	31	0	How many isolation gowns do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	102	32	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	103	33	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	104	34	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	104	34	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	105	35	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	105	35	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	106	36	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	107	37	1	How many face shields does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	107	37	2	How many face shields does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	108	38	0	How many face shields do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	109	39	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	110	40	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	111	41	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	111	41	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	112	42	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	112	42	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	113	43	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	114	44	0	Do you use nitrile gloves?	4/6/20		
PPE	115	45	1	How many pairs of nitrile gloves does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	115	45	2	How many pairs of nitrile gloves does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	116	46	0	How many pairs of nitrile gloves do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	117	47	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	118	48	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	119	49	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	119	49	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	120	50	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	120	50	2	If yes, what is the quantity of this item you expect to receive from thosshipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	121	51	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	122	52	0	Do you use neoprene gloves?	4/6/20		
PPE	123	53	1	How many pairs of neoprene gloves does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	123	53	2	How many pairs of neoprene gloves does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	124	54	0	How many pairs of neoprene gloves do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	125	55	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	126	56	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	127	57	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	127	57	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	128	58	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	128	58	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	129	59	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	130	60	0	Do you use surgical gloves?	4/6/20		
PPE	131	61	1	How many pairs of surgical gloves does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	131	61	2	How many pairs of surgical gloves does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	132	62	0	How many pairs of surgical gloves do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	133	63	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	134	64	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	135	65	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PPE	135	65	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	136	66	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	136	66	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	137	67	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	138	68	0	Do you use vinyl gloves?	4/6/20		
PPE	139	69	1	How many pairs of vinyl gloves does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	139	69	2	How many pairs of vinyl gloves does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	140	70	0	How many pairs of vinyl gloves do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	141	71	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20		
PPE	142	72	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20	
PPE	143	73	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20
PPE	143	73	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20
PPE	144	74	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	144	74	2	If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)	4/3/20		
PPE	145	75	0	What is the earliest delivery date?	4/3/20	4/5/20	
PPE	146	76	0	Do you use thermometers?	4/6/20		
PPE	147	77	1	How many thermometers does your facility have? (DO NOT respond in number of cases or boxes)	4/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised	
PPE	147	77	2	"How many thermometers does your facility have? (Reported inventory amounts MUST include all private and public donations in addition to purchased items) (DO NOT respond in number of cases or boxes)"	4/3/20			
PPE	148	78	0	Approximately how many thermometers do you use each day (burn rate)? (DO NOT respond in number of cases or boxes)	4/3/20			
PPE	149	79	0	Calculated number of days' of supply remaining: IMPORTANT: This field is autocalculated.	4/3/20			
PPE	150	80	0	If you disagree with the value calculated for the number of days supply, please enter your value here.	4/3/20	4/4/20		
PPE	151	81	1	Are you expecting a shipment in time to replenish your supply?	4/3/20		4/6/20	
PPE	151	81	2	Are you expecting shipment(s) of this item from commercial/vendor and/or donating sources, within the next 7 days?	4/3/20		4/6/20	
PPE	152	82	1	If yes, what is the quantity ordered and/or donated? (DO NOT respond in number of cases or boxes)	4/3/20			
PPE	152	82	2	"If yes, what is the quantity of this item you expect to receive from those shipment(s) arriving within the next 7 days? (DO NOT respond in number of cases or boxes)"	4/3/20			
PPE	153	83	0	What is the earliest delivery date?	4/3/20	4/5/20		
PPE	154	84	0	Are you currently experiencing, or anticipate experiencing any other issues or PPE supply shortages that may be connected to COVID-19 pandemic? (please describe here):	4/3/20			
PPE	155	85	0	"Are you responding to the Supplies of PPE questions of this survey? Respond & Yes if: -- you are responding with combined data on behalf of all hospitals in your network (network level data) OR -- if you are responding with data just for your hospital Respond & No if: -- you are not responding to these sections of the survey because you are part of a network that has informed you that your data is included in the network level data, and is being entered on your behalf"	4/9/20			
RSCI	Report Submit & Contact Info							
RSCI	156	1	0	Last Updated	3/17/20			
RSCI	157	2	0	Time Period	3/17/20			

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
RSCI	158	3	0	Name of the person primarily responsible for completion of this survey	3/17/20		
RSCI	159	4	0	Phone number (in xxx-xxx-xxxx format)	3/17/20		
RSCI	160	5	0	Email address	3/17/20		
RSCI	161	6	0	By Submitting this survey form, the organization attests that all of the information on the form has been reviewed and updated (if necessary) to ensure its accuracy as of the Date provided. Enter today's date or use the Calendar icon to select the date.	3/17/20		
RSCI	162	7	0	Indicate whether this is your morning (AM) or late afternoon (PM) survey submission for today:	3/17/20		
RSCI	163	8	1	Evening contact Name	3/23/20	4/24/20	4/25/20
RSCI	163	8	2	Secondary Contact Name	4/25/20		4/25/20
RSCI	164	9	1	Evening contact Phone Number (in xxx-xxx-xxxx format)	3/23/20	4/24/20	4/25/20
RSCI	164	9	2	Secondary Contact Phone Number (in xxx-xxx-xxxx format)	4/25/20		4/25/20
RSCI	165	10	1	Evening contact Email Address	3/23/20	4/24/20	4/25/20
RSCI	165	10	2	Secondary Contact Email Address	4/25/20		4/25/20
RRT	Renal Replacement Therapy (RRT)						
RRT	166	1	0	1. Does your hospital provide Renal Replacement Therapy (RRT) for inpatients either by your own staff or by a contract service? IMPORTANT: If your hospital does not provide for RRT treatments, either by your own staff or by a contract service, please skip to the last section of this survey titled: Additional Information and respond to questions 15, 16 and 17.	4/20/20	4/20/20	
RRT	167	2	0	If yes, your hospital DOES provide RRT treatments for inpatients, whose staff perform RRT treatments?	4/20/20	4/20/20	
RRT	168	3	0	If you indicated that RRT is performed by a contract service, who provides/maintains the necessary fluids and supplies for these treatments?	4/20/20	4/20/20	
RRT	169	4	0	If you use a contract service to perform RRT treatments for your hospital inpatients, are you experiencing any difficulties in availability of these services due to your contractors have difficulty with staff shortages or in obtaining their necessary supplies or fluids?	4/20/20	4/20/20	
RRT	170	5	0	If yes, please explain:	4/20/20	4/20/20	

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
RRT	171	6	0	2. How many Acute Kidney Injury (AKI) inpatients, requiring some form of RRT, are currently at your facility?	4/20/20	4/20/20	
RRT	172	7	0	3. How many RRT treatments were performed at your hospital for AKI inpatients in the past 24 hours?	4/20/20	4/20/20	
RRT	173	8	0	3. a Approximately what percent of increase over the typical number of RRT treatments performed at your hospital in a 24-hour period for inpatients, does this number represent?	4/20/20	4/20/20	
RRT	174	9	0	3. b Of these treatments, how many were Continuous Renal Replacement Therapy (CRRT)?	4/20/20	4/20/20	
RRT	175	10	0	4. Approximately what percent (%) of your ICU patients have been requiring CRRT?	4/20/20	4/20/20	
RRT	176	11	0	5. Is your hospital experiencing any shortages of RRT machines, supplies or staff?	4/20/20	4/20/20	
RRT	177	12	0	6. Based on current usage, what best describes your equipment shortages for each: a. CRRT Equipment: [No shortage][Minor shortage][Moderate shortage][Severe shortage]	4/20/20	4/20/20	
RRT	178	13	0	6. Based on current usage, what best describes your equipment shortages for each: b. Peritoneal Dialysis (PD) [No shortage][Minor shortage][Moderate shortage][Severe shortage]	4/20/20	4/20/20	
RRT	179	14	0	6. Based on current usage, what best describes your equipment shortages for each: c. Hemodialysis (HD) [No shortage][Minor shortage][Moderate shortage][Severe shortage]	4/20/20	4/20/20	
RRT	180	15	0	7. If you indicated that you are experiencing a shortage of equipment, based on the current demand for RRT treatment, approximately how many additional machines of each type do you anticipate needing? a. CRRT machines:	4/20/20	4/20/20	
RRT	181	16	0	7. If you indicated that you are experiencing a shortage of equipment, based on the current demand for RRT treatment, approximately how many additional machines of each type do you anticipate needing? b. PD machines:	4/20/20	4/20/20	
RRT	182	17	0	7. If you indicated that you are experiencing a shortage of equipment, based on the current demand for RRT treatment, approximately how many additional machines of each type do you anticipate needing? c. HD machines:	4/20/20	4/20/20	
RRT	183	18	0	8. Based on your current usage, what quantity of each of the following supplies are you currently using daily (i.e. current daily burn rate)? a. Dialysis solution for HD, PD and CRRT: (respond in # of liters/day - this should be a total # of liters used per day across all types of fluids)	4/20/20	4/20/20	
RRT	184	19	0	8. Based on your current usage, what quantity of each of the following supplies are you currently using daily (i.e. current daily burn rate)? b. Dialyzers (this includes CRRT cartridges and filters):	4/20/20	4/20/20	

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
RRT	185	20	0	8. Based on your current usage, what quantity of each of the following supplies are you currently using daily (i.e. current daily burn rate)? c. HD needles and tubing.	4/20/20	4/20/20	
RRT	186	21	0	9. Approximately what percent (%) increase over your normal daily usage (burn rate) of these supplies, would you say your current usage represents?	4/20/20	4/20/20	
RRT	187	22	0	10. Based on current demand for RRT treatment, approximately how many days of supply do you have on hand for each of these essential treatment supplies? a. Dialysis Solution for HD, PD and CRRT: [(0-3 days)] [(4-7 days)][(8-14 days)][(more than 14 days)]	4/20/20	4/20/20	
RRT	188	23	0	10. Based on current demand for RRT treatment, approximately how many days of supply do you have on hand for each of these essential treatment supplies? b. Dialyzers: [(0-3 days)][(4-7 days)][(8-14 days)][(more than 14 days)]	4/20/20	4/20/20	
RRT	189	24	0	10. Based on current demand for RRT treatment, approximately how many days of supply do you have on hand for each of these essential treatment supplies? c. HD needles and tubing: [(0-3 days)][(4-7 days)] [(8-14 days)][(more than 14 days)]	4/20/20	4/20/20	
RRT	190	25	0	11. If you are receiving only a % of your typical supply order from your distributor, approximately what percent of the usual amount ordered are you receiving for each of the following supplies? a. Dialysis Fluids for HD, PD and CRRT:	4/20/20	4/20/20	
RRT	191	26	0	11. If you are receiving only a % of your typical supply order from your distributor, approximately what percent of the usual amount ordered are you receiving for each of the following supplies? b. Dialyzers:	4/20/20	4/20/20	
RRT	192	27	0	11. If you are receiving only a % of your typical supply order from your distributor, approximately what percent of the usual amount ordered are you receiving for each of the following supplies? c. HD needles and tubing:	4/20/20	4/20/20	
RRT	193	28	0	12. What distributors are you currently using for these supplies? (please check all that apply) Baxter: Fresenius Medical Care: DaVita: NXstage:	4/20/20	4/20/20	
RRT	194	29	0	13. Are you currently experiencing or anticipating a staffing shortage related to administering RRT treatments? [Normal / No Shortages/Adequate Staffing][Minor or Anticipated Shortages][Moderate Shortages][Severe Shortages]	4/20/20	4/20/20	
RRT	195	30	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Patient Care Technicians perform dialysis treatment:	4/20/20	4/20/20	

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
RRT	196	31	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Biomedical Technicians - maintain machines/ order supplies:	4/20/20	4/20/20	
RRT	197	32	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Nephrology RNs/LPNs:	4/20/20	4/20/20	
RRT	198	33	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Dialysis and CRRT RNs:	4/20/20	4/20/20	
RRT	199	34	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Perfusionist:	4/20/20	4/20/20	
RRT	200	35	0	14. If you indicated you are experiencing a staffing shortage above, please enter the approximate number of each type of staff for which you are most in need: Other type of Staff: Please describe and indicate number needed for each & other type of staff you list	4/20/20	4/20/20	
RRT	201	36	0	15. If you currently have no shortages or needs, are you able to assist / lend any supplies to other hospitals as surge relief?	4/20/20	4/20/20	
RRT	202	37	0	16. Please enter any additional comments questions you may have:	4/20/20	4/20/20	
RRT	203	38	0	Email address:	4/20/20	4/20/20	
RRT	204	39	0	Name:	4/20/20	4/20/20	
RRT	205	40	0	Phone: (format: 555-555-5555)	4/20/20	4/20/20	
SCS	Specimen Collection Site						
SCS	206	1	0	Does the facility have a specimen collection site?	3/19/2020 3/22/2020 3/27/2020		
SCS	207	2	0	Briefly describe this collection site location: (e.g., drive up location, tent, specific area within the hospital, other campus site, etc.)	3/27/20		
SCS	208	3	0	Street address	3/27/20		
SCS	209	4	0	Street address 2 (if nec)	3/27/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
SCS	210	5	0	City/town	3/27/20		
SCS	211	6	0	ZIP	3/27/20		
SCS	212	7	0	Hours of Operation: Opening Time	3/27/20		
SCS	213	8	0	Hours of Operation: Closing Time	3/27/20		
VENT	Ventilators						
VENT	214	1	1	Enter the total number of Adult Bed-side Ventilators currently at the facility - regardless of whether Available or already in use	3/18/20		
VENT	214	1	2	Enter the Total number of Adult (only) bed-side (only) ventilators currently at the facility (regardless of whether Available or already in use)	3/18/20		
VENT	215	2	1	What is the total number of Adult Bed-side Ventilators currently available/NOT in use at your facility?	3/18/20		
VENT	215	2	2	Of the total above, enter the number of Adult (only) bed-side (only) ventilators currently available (NOT in use) at the facility	3/18/20		
VENT	216	3	0	How many days' supply of Adult (only) ventilator circuits (both available AND not in use) does the facility currently have on hand? This is based on daily burn rate of adult vent circuits	3/18/20	4/8/20	
VENT	217	4	0	How many days' supply of Adult (only) ventilator tubing does the facility currently have on hand AND available (NOT in use)?	3/18/20	4/8/20	
VENT	218	5	0	Enter the total number of Adult (only) Transport ventilators currently at the facility (regardless of whether Available or already in use) **Do NOT include any Bedside vents counted above**	3/18/20		
VENT	219	6	0	Of the total above, enter the number of Adult (only) Transport ventilators currently Available (NOT in use) at the facility **Do NOT include any Bedside vents counted above**	3/25/20		
VENT	220	7	1	What is the total number of Pediatric Bed-side Ventilators currently at the facility?(available and/or in use)?	3/18/20		
VENT	220	7	2	Enter the Total number of Pediatric (only) Bed-side (only) ventilators currently at the facility (regardless of whether Available or already in use)	3/18/20		
VENT	221	8	1	What is the total number of Pediatric Bed-side Ventilators currently available/NOT in use at your facility?	3/18/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
VENT	221	8	2	Of the total above, enter the number of Pediatric (only) bed-side (only) ventilators currently available (NOT in use) at the facility	3/18/20		
VENT	222	9	0	How many days' supply of Pediatric ventilator circuits (both available AND not in use) does the facility currently have on hand? This is based on daily burn rate of pediatric vent circuits	3/18/20	4/8/20	
VENT	223	10	0	How many days' supply of Pediatric ventilator tubing does the facility currently have on hand AND available (NOT in use)?	3/18/20	4/8/20	
VENT	224	11	0	Enter the total number of Pediatric (only) Transport ventilators currently at the facility (regardless of whether Available or already in use) **Do NOT include any Bedside vents counted above**	3/18/20		
VENT	225	12	0	Of the total above, enter the number of Pediatric (only) Transport ventilators currently Available (NOT in use) at the facility **Do NOT include any Bedside vents counted above**	3/25/20		
VENT	226	13	1	Enter the total number of dual-use Bed-side Ventilators - usable for BOTH Adults and Peds - currently at the facility - regardless of whether Available or already in use **Do NOT include any Adult/Ped vents counted above**	3/18/20		
VENT	226	13	2	Enter the total number of dual-use (only) Bed-side (only) Ventilators - usable for BOTH Adults and Peds - currently at the facility (regardless of whether Available or already in use) **Do NOT include any Adult/Ped vents counted above**	3/18/20		
VENT	227	14	0	Of the number above, enter the total number of dual-use (only) Bed-side (only) Ventilators - usable for BOTH Adults and Peds - currently Available (NOT in use) at the facility **Do NOT include any Adult/Ped vents counted above**	3/25/20		
VENT	228	15	1	Enter the total number of dual-use Transport Ventilators - usable for BOTH Adults and Peds - currently at the facility - regardless of whether Available or already in use **Do NOT include any Adult/Ped vents counted above**	3/18/20		
VENT	228	15	2	Enter the total number of dual-use (only) Transport Ventilators - usable for BOTH Adults and Peds - currently at the facility - regardless of whether Available or already in use **Do NOT include any Adult/Ped vents counted above**	3/18/20		
VENT	229	16	0	Of the number above, enter the total number of dual-use (only) Transport Ventilators - usable for BOTH Adults and Peds - currently Available (NOT in use) at the facility **Do NOT include any Adult/Ped vents counted above**	3/25/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
VENT	230	17	0	Enter the total number of Portable Cardiac Monitors - usable for BOTH Adults and Peds - currently on hand at the facility - regardless of whether Available or already in use	3/18/20		
VENT	231	18	0	Does the facility have any additional ventilators either on order or confirmed for delivery? (this would include any that are purchased, leased or donated)	4/2/20		
VENT	232	19	0	If Yes, how many were ordered or are expected?	4/2/20		
VENT	233	20	0	Enter (select) the expected Delivery Date	4/2/20		
VENT	234	21	0	How many BiPAP machines does your facility have?	4/5/20		
VENT	235	22	0	How many of your BiPAP machines are currently available (NOT in use)?	4/5/20		
VENT	236	23	0	Do you have ventilators [NOT included in the count of those reported in ANY of the ventilator sections above] that are out of service and are in need of repair?	4/7/20	4/7/20	
VENT	237	24	0	If yes, how many out-of-service ventilators do you have?	4/7/20	4/7/20	
VENT	238	25	0	Have these out-of-service ventilators been decontaminated?	4/7/20	4/7/20	
VENT	239	26	0	Are you responding to the Ventilator, BiPAP and Cardiac Monitors questions of this survey? Respond Yes if: -- you are responding with combined data on behalf of all hospitals in your network (network level data) OR -- you are responding with data just for your hospital (not in a network, or your network has NOT informed you it is responding on behalf of its hospitals) Respond No if: -- you are not responding to these sections of the survey because you are part of a network that has informed you that your data is included in the network level data, AND is being entered on your behalf	4/9/20	4/9/20	
PLPD	Patient-Level: Patient Demographics						
PLPD	240	1	0	If patient is in the ICU, please select the type of respiratory support patient is currently on:	3/15/20		
PLPD	241	2	0	Is this positive COVID-19 patient a new patient, not included in your last report?	3/15/20		
PLPD	242	3	0	If this patient is not a newly added patient on todays report, has there been a Change of the Patient's Status since your last daily report?	3/15/20		
PLPD	243	4	0	Date of Discharge:	3/15/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PLPD	244	5	0	Select Patient Status:	3/15/20		
PLPD	245	6	0	If yes, please select appropriate status:	3/15/20		
PLAD	Patient-Level: Additional Questions – Decedents						
PLAD	246	1	0	Have there been any confirmed positive COVID-19 patients that died in the facility SINCE the last report? (positive patient deaths where details were NOT included in the last report)	3/25/20		
PLAD	247	2	0	Enter the patient's initials. Order of initials: First/Middle/Last	3/25/20		
PLAD	248	3	0	Patient's County of Residence(if NOT a NYS resident, select non-NYS)	3/25/20		
PLAD	249	4	0	Date Admitted(if NOT Admitted, enter Date of hospital visit)	3/25/20		
PLAD	250	5	0	Race: [American Indian or Alaskan Native][Asian][Black or African American][Hispanic or Latino][Native Hawaiian or other Pacific Islander][Unknown][White][Other Race]	3/25/20		
PLAD	251	6	0	If Other race, describe here:	3/25/20		
PLAD	252	7	0	Gender: [Female][Male]	3/25/20		
PLAD	253	8	0	Age	3/25/20		
PLAD	254	9	0	Date of Death	3/25/20		
PLAD	255	10	0	Were there any Co-morbidities for this patient? [Yes][No]	3/25/20		
PLAD	256	11	0	If Yes, list any Co-morbidities(please do NOT use/include commas)	3/25/20		
PLAH	Patient-Level: Additional Questions – Hospitalized						
PLAH	257	1	0	I have new COVID positive patients:	5/3/20		
PLAH	258	2	0	Patient initials (first, middle, last)	5/3/20		
PLAH	259	3	0	Electronic medical record number - enter five zeros if none exists.	5/3/20		
PLAH	260	4	0	Home address	5/3/20		
PLAH	261	5	0	Home zip code	5/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

Domain	Total Count	Domain Count	Question Variants	Question	Added	Last Appeared	Revised
PLAH	262	6	0	Gender: [Male][Female][Other]	5/3/20		
PLAH	263	7	0	Date Of Birth	5/3/20		
PLAH	264	8	0	Race: [American Indian or Alaskan Native][Asian][Black or African American][Hispanic or Latino][Native Hawaiian or other Pacific Islander][Unknown][White][Other Race]	5/3/20		
PLAH	265	9	0	Co-morbidities	5/3/20		
PLAH	266	10	0	Location/type of setting admitted from: [Congregate][Jail/Prison][Nursing Home][Assisted Living Facility][Home][Homeless][Other]	5/3/20		
PLAH	267	11	0	If you selected Other location/type of setting, please describe here:	5/3/20		
PLAH	268	12	0	Method of travel to work, if working outside the home: [Public Transportation][Personal Automobile][Car Service][Walking][Biking][N/A Working From Home][Other]	5/3/20		
PLAH	269	13	0	If you selected Other method of travel, please describe here:	5/3/20		
PLAH	270	14	0	Occupation:	5/3/20		

Lessons Learned: Hospital and Health System Data Collection & Data Use

APPENDIX B: GNYHA SIT STAT 2.0 DAILY REPORT QUESTIONS

Survey Questions - Hospitals			Data Collection		
Status Name	Description	Response Options	Start Date	End Date	Frequency
ED Volume	Compared to a regular day, this status best describes your ED currently. This is a qualitative measure.	<p>Normal: ED is similar to a regular day. Please report any stressors in comments below.</p> <p>Less Busy: ED is less busy than a regular day. Please report any stressors in comments below.</p> <p>Busier - No Impact: ED is busier than a regular day – however no impacts to operations. Please report any stressors in comments below.</p> <p>Busier - Impact: ED is busier than a regular day – there are operational impacts. Report impacts in the comment section below.</p> <p>Closed: ED is temporarily closed due to emergency / disaster, damage, or maintenance / repair. Please provide details in the comment section below.</p> <p>Not Applicable: No emergency department</p>	3/9/20	Ongoing	Daily
Inpatient Medical Surge	Have you needed to surge beyond licensed capacity? If yes, please provide additional details in the comment section.	<p>Yes: Yes anticipated or currently in surge status</p> <p>No: No Need For Surge</p>	3/9/20	Ongoing	Daily
Staffing Status	Are you currently experiencing or anticipating a staffing shortage?	<p>Normal / No Shortages: Adequate Staffing</p> <p>Minor / Anticipated: There are minor or anticipated shortages. Please indicate the types of staff that are needed. Select all that apply.</p> <p>Moderate Shortages: There are moderate staffing shortages. Please indicate the types of staff that are needed. Select all that apply.</p> <p>Severe Shortages: There are severe staffing shortages. Please indicate the types of staff that are needed. Select all that apply.</p>	3/9/20	Ongoing	Daily
CoVID-19 Supply Shortages	Is your facility currently experiencing any supply shortages related to and as a result of the current CoVID-19 outbreak?	<p>Yes: Please select all that apply and provide details in the comment section below as necessary.</p> <p>No</p>	3/9/20	3/15/20	Daily
Vent Capacity	How many operational ventilators do you currently have in the hospital? Please include units that are in use and not in use.	Number	3/12/20	3/12/20	Collected Once
EOC Status	Please report the current status of your internal Emergency Operations Center (EOC).	<p>Inactive: The EOC is currently inactive.</p> <p>Active: The EOC is currently active.</p> <p>Virtual: There is limited staffing in an EOC. Emergency operations are being handled from various areas within the facility.</p> <p>Backup Location: The EOC is activated, operating out of the backup (secondary) location.</p>	3/16/20	3/24/20	Daily

Curtailment of Services	Have you needed to curtail elective procedures or other services to accommodate patient surge or staffing shortage?	<p>Yes: Please list the curtailed procedures/services.</p> <p>No</p>	3/16/20	3/24/20	Daily
Use of Surge Space	Are you currently utilizing traditional and/or non-traditional surge spaces to accommodate patient surge?	<p>Yes: Please specify spaces being used in the comments.</p> <p>No</p>	3/16/20	Ongoing	Daily
Urgent PPE Shortages	Does your facility currently have TEN (10) or fewer days of supply on hand of any types of personal protective equipment (PPE)?	<p>Yes: Please select all that apply and provide details in the comment section below as necessary.</p> <p>No</p>	3/16/20	3/24/20	Daily
# ED Boarding	At this time, approximately how many patients in the ED are awaiting admission to a floor bed?	Number	4/15/20	Ongoing	Daily
# ED Boarding – Intubated	Of those boarding in the ED, how many are intubated and waiting for an ICU bed?	Number	4/15/20	Ongoing	Daily

APPENDIX C: NEW HERDS QUESTIONS/DATA POINTS FOR HHS DAILY REPORTING ALIGNMENT

Submitted by HANYS April 24, v.2

1. Patients currently hospitalized in an inpatient bed who have suspected COVID-19.
2. Patients currently hospitalized in an inpatient bed with suspected COVID-19 and who are on a mechanical ventilator.
3. Hospital onset: Patients currently hospitalized in an inpatient bed with onset of suspected or confirmed COVID-19 14 or more days after hospital admission due to a condition other than COVID-19.
4. ED/overflow: Patients with suspected or confirmed COVID-19 who currently are in the Emergency Department (ED) or any overflow location awaiting an inpatient bed.
5. ED/overflow and ventilated: Patients with suspected or confirmed COVID-19 who currently are in the ED or any overflow location awaiting an inpatient bed and who are on a mechanical ventilator.
6. Deaths of patients with suspected COVID-19: Number of patients with suspected COVID-19 who died in the hospital, ED, or an overflow location on the date for which you are reporting.

Questions 7–16:

Supply Item	Are you currently reusing the item or implementing extended use	Are you able to obtain the item
N95 Masks	Yes/No	Yes/No
Surgical Masks	Yes/No	Yes/No
Eye protection, including face shields or goggles	Yes/No	Yes/No
Gowns (single use)	Yes/No	Yes/No
Gloves	Yes/No	Yes/No

Questions 16–21:

Supply Item	On-hand supply	Are you currently reusing the item or implementing extended use	Can you obtain the item
Ventilator supplies (any, including tubing)	Zero days; 1-3 days; 4-14 days; 15 or more days	Yes/No	Yes/No
Other respirators, including PAPRs	Zero days; 1-3 days; 4-14 days; 15 or more days	Yes/No	Yes/No

Lessons Learned: Hospital and Health System Data Collection & Data Use

Questions 21–36:

Health Care Worker Staff Groups	Critical Staffing Shortage Today: Does your organization believe it has a critical staffing shortage in this group today:	Critical Staffing Shortage Within a Week: Does your organization anticipate it will have a critical staffing shortage in this group within one week?
Environmental services	Yes/No	Yes/No
Nurses: registered nurses and licensed practical nurses	Yes/No	Yes/No
Respiratory therapists	Yes/No	Yes/No
Pharmacists and pharmacy techs	Yes/No	Yes/No
Physicians: attending physician, fellows	Yes/No	Yes/No
Other licensed independent practitioners: advanced practice nurses, physician assistants	Yes/No	Yes/No
Temporary physicians, nurses, respiratory therapists, and pharmacists (per diems, travelers, retired, or other seasonal or intermittently contracted persons)	Yes/No	Yes/No
Other health care personnel (persons who work in the facility, regardless of clinical responsibility or patient contact not included in the categories above)	Yes/No: If yes, specify: What are the other groups not included in the above for which your facility has a critical staffing shortage.	Yes/No: If yes, specify: What are the other groups not included in the above for which your facility anticipates a critical staffing shortage.

Additional questions needed if no electronic calculation:

37. Enter the total number of staffed beds (including ICU/Psych/etc.) at the facility that are CURRENTLY available.
38. Enter the total number of staffed ICU beds at your facility that are currently available.
39. Mechanical ventilators available. Need total from several questions: Enter total number of adult bedside; adult transport; pediatric bedside; pediatric transport; dual use vents; bilevel positive airway pressure (BiPap) machines.
40. Mechanical ventilators in use. Need total from several questions: enter total number available of adult bedside; adult transport; pediatric bedside; pediatric transport; dual use vents; BiPap machines.
41. How many suspected positive COVID-19 cases, only report patients admitted as inpatients. Do not report patients treated and released from ED.
42. Patients currently hospitalized in an inpatient bed with suspected COVID-19 and who are on a mechanical ventilator.
43. Number of patients with suspected COVID-19 who died in the hospital, ED, or any overflow location on the date for which you are reporting.

© Copyright 2020

Greater New York Hospital Association

All rights reserved. This publication or any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Greater New York Hospital Association.