

Performance of the Massachusetts Health Care System

Quality

Technical Appendix March 2022

Quality of Care in the Commonwealth

TECHNICAL APPENDIX

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Metrics: Clinical Performance Measures: Healthcare Effectiveness Data and Information Set (HEDIS)

Steward: National Committee for Quality Assurance (NCQA)

CHIA Data Source: Massachusetts Health Quality Partners (MHQP)

Populations: Measures for Commercially Insured Enrollees in HMO and Point of Service (excluding Marketplace) products in participating health plans (AllWays Health Partners, Blue Cross Blue Shield of Massachusetts, Fallon Community Health Plan, Harvard Pilgrim Health Care, Health New England, and Tufts Health Plan) are included in this report.

The HEDIS® measures reported cover the health plan population that was enrolled as of December 31st of the measurement year (2020) and met the enrollment, demographic, and clinical specifications required for each measure.

MEASURE CATEGORY	MEASURE NAME	DESCRIPTION	DATA SOURCE
Behavioral Health	Mental Illness 30-Day Hospitalization Follow-Up	Follow-Up After Emergency Department Visit for Mental Illness (30-Day)	Administrative Data Method
Behavioral Health	Mental Illness 7-Day ED Follow-Up	Follow-Up After Emergency Department Visit for Mental Illness (7-Day)	Administrative Data Method
Behavioral Health	Antidepressant Med Mgmt.-Acute Phase	Antidepressant Medication Management - Effective Acute Phase Treatment	Administrative Data Method
Behavioral Health	Antidepressant Med Mgmt.-Continuation Phase	Antidepressant Medication Management - Effective Continuation Phase Treatment	Administrative Data Method
Behavioral Health	IET: Alcohol and Other Drug Dependence: Initiation Phase	Initiation and Engagement of Alcohol and other Drug Abuse or Dependence Treatment - Initiation of AOD Treatment	Administrative Data Method
Chronic Condition Care	Diabetes-HbA1c Testing	Comprehensive Diabetes Care - Retinal Eye Exams	Hybrid Method
Chronic Condition Care	Diabetes-Retinal Eye Exams	Comprehensive Diabetes Care - HbA1c Testing	Hybrid Method
Chronic Condition Care	Asthma Medication Ratio	Asthma Medication Ratio.	Administrative Data Method
Pediatric/Adolescent Care	Well-Child Visits-First 15 Months	Well-Child Visits in the first 30 Months of Life: 0 - 15 Months	Administrative Data Method
Pediatric/Adolescent Care	Childhood Immunizations-MMR	Childhood Immunization Status - MMR	Hybrid Method

MEASURE CATEGORY	MEASURE NAME	DESCRIPTION	DATA SOURCE
Pediatric/Adolescent Care	Adolescent Immunizations-Combo 2	Immunizations for Adolescents (Combo 2)	Hybrid Method
Pediatric/Adolescent Care	Metabolic Monitoring-Antipsychotics	Metabolic Monitoring for Children and Adolescents on Antipsychotics: Combined Blood Glucose/Cholesterol Testing	Administrative Data Method
Screening and Prevention	Breast Cancer Screening	Breast Cancer Screening	Hybrid Method
Screening and Prevention	Cervical Cancer Screening	Cervical Cancer Screening	Administrative Data Method
Screening and Prevention	Chlamydia Screening: Women 16-20	Chlamydia Screening in Women Ages 16 to 20	Administrative Data Method
Screening and Prevention	Colorectal Cancer Screening	Colorectal Cancer Screening	Hybrid Method

Definition:

The Healthcare Effectiveness Data and Information Set (HEDIS) Measure Set was created by the National Committee for Quality Assurance (NCQA). The health plans that are NCQA accredited for any product line submit their HEDIS measures to NCQA based on their health plan enrollee population and are required to use standard technical measurement specifications defined by the NCQA. MHQP's CQ HEDIS 2021 corresponds to HEDIS Measurement Year (MY) 2020, and all measures have undergone the NCQA-mandated audits for the measurement year.

Performance Measures:

The above measures are reported at the statewide level. Details on these measures can be found through the National Quality Measures Clearinghouse maintained by the Agency for Healthcare Research and Quality (AHRQ) of the U.S. Department of Health and Human Services. That information is available at <https://www.ahrq.gov/gam/index.html>.

Data Sources:

Six Massachusetts health plans provided the HEDIS data used to compile the measures in these reports. Four of these plans provided de-identified data at the individual member level, and two health plans aggregated to the individual provider level prior to submission to MHQP. All measures were attributed to the enrollee's assigned primary care provider (PCP) as of December 31st of the measurement year (2020). A numerator event delivered by any eligible health care provider was credited to the assigned PCP, even if the event was delivered by a different eligible health care provider. The providers included in the reports were those listed as PCPs by at least one of the six participating health plans. These providers included internists, family practitioners, geriatricians, pediatricians, and

nurse practitioners with patient panels as a PCP, and specialists who served as PCPs for some patients and had dual status according to at least one of the health plans.

Measurement Methods:

For each of the measures, NCQA specified whether results should be calculated using administrative (claims/encounter) data only (Administrative Data Method) or whether health plans could opt to draw a random sample of the HEDIS-eligible population and use data obtained through medical record reviews to supplement the data derived from their claims and encounter records (Hybrid Method). Medical record data could be used to identify patients who should be dropped from the denominator population, based on the exclusion criteria for a given measure, and to identify eligible numerator events that were not captured in the plans' administrative data. The table above identifies measures that may be calculated using the Hybrid Method. Please note that, for some health plans, access to on-site medical records and at practice sites in 2020 and 2021 was limited due to the ongoing Covid-19 pandemic.

Metrics: Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS)

Steward: Agency for Healthcare Research and Quality

CHIA Data Source: CMS Hospital Compare

Populations: All Payers, Ages 18+

MEASURE NAME AND ID	DESCRIPTION	PRIMARY DATA SOURCE
Cleanliness of Hospital Environment	Patient response to the individual HCAHPS survey question about the cleanliness of their hospital room during their stay.	Patient Reported Data/Survey
Communication about Medicines	A composite of responses to HCAHPS survey questions about how providers communicated about medications during the hospital stay.	Patient Reported Data/Survey
Communication with Doctors	A composite of responses to HCAHPS survey questions about how doctors communicated during the hospital stay.	Patient Reported Data/Survey
Communication with Nurses	A composite of responses to HCAHPS survey questions about how nurses communicated during the hospital stay.	Patient Reported Data/Survey
Discharge Information	A composite of responses to HCAHPS survey questions about the care instructions given to them by a provider at discharge.	Patient Reported Data/Survey
Overall Hospital Rating	Overall patient rating of the hospital, based on the recent admission, on a scale from 0 (lowest) to 10 (highest).	Patient Reported Data/Survey
Recommend the Hospital	Would the patient recommend the hospital, based on the recent admission.	Patient Reported Data/Survey

MEASURE NAME AND ID	DESCRIPTION	PRIMARY DATA SOURCE
Quietness of Hospital Environment	Patient response to the individual HCAHPS survey question about the quietness of their hospital room at night.	Patient Reported Data/Survey
Responsiveness of Hospital Staff	A composite of responses to HCAHPS survey questions about if help was provided when it was needed during the hospital stay.	Patient Reported Data/Survey
Care Transition	A composite of responses to HCAHPS survey questions about how patients understood the care instructions they received at discharge.	Patient Reported Data/Survey

Definition:

All HCAHPS scores were retrieved from CMS Hospital Compare as pre-calculated percentages. Where a hospital's performance is not included on Hospital Compare because of small numbers, missing data, or because the measure does not apply, the measure is also not included in the report. For more information on CMS's methods, see:

https://hcahpsonline.org/globalassets/hcahps/star-ratings/tech-notes/october_2021_star-ratings_tech-notes_updated.pdf

The accompanying databook also includes HCAHPS "top-box" scores. These scores reflect the percentage of respondents that gave the most positive response to HCAHPS survey items. Higher scores indicate better patient-reported experiences. For more information on CMS's methods, see: <https://hcahpsonline.org/en/summary-analyses/>

Metrics: Consumer Assessment of Healthcare Providers and Systems Clinician and Group Patient Centered Medical Home Survey (CG CAHPS, 4.0 (beta) Survey) – Primary Care (Adult and Pediatrics)

Steward: Agency for Healthcare Research and Quality (AHRQ) and National Committee for Quality Assurance (NCQA)

CHIA Data Source: Massachusetts Health Quality Partners, Patient Experience Survey (PES)

Population:

1. Commercial - Commercially insured members of five health plans in Massachusetts (Blue Cross Blue Shield of Massachusetts, Tufts Health Plan, Harvard Pilgrim Health Care, Fallon Community Health Plan, and Health New England), in an HMO, PPO, or POS health plan product. Adult patients' ages 18+, pediatric patients ages 0 to 17.
2. MassHealth – Sample of members from all 17 MassHealth ACOs. Adult patients' ages 18+, pediatric patients ages 0 to 17.

Adult Primary Care Patient Experience Survey Measures

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
Organizational Access	<p>Survey respondents' scoring of satisfaction with their ability to get timely appointments, care, and information:</p> <ol style="list-style-type: none"> 1. When you called this provider's office to get an appointment for care you needed right away, how often did you get an appointment as soon as you needed? 2. When you made an appointment for a check-up or routine care with this provider, how often did you get an appointment as soon as you needed? 3. When you called this provider's office during regular office hours, how often did you get an answer to your medical question that same day? 	Patient Reported Data/Survey
Office Staff	<p>Survey respondents' scoring of their interactions with office staff.</p> <ol style="list-style-type: none"> 1. Thinking about your most recent visit, was the staff from this provider's office as helpful as you thought they should be? 2. Thinking about your most recent visit, did the staff from this provider's office treat you with courtesy and respect? 	Patient Reported Data/Survey
Integration of Care	<p>Survey respondents' scoring of their satisfaction with their providers' integration of their care.</p> <ol style="list-style-type: none"> 1. During your most recent visit, did the provider seem informed and up-to-date about the care you got from specialists? 2. Did someone from this provider's office follow up to give you those results? 3. During your most recent visit, did you and someone from this provider's office talk about all the prescription medicines you were taking, whether they were prescribed by this office or another provider? 	Patient Reported Data/Survey
Communication	<p>Survey respondents' scoring of their satisfaction with their patient-providers' communication.</p> <ol style="list-style-type: none"> 1. During your most recent visit, did this provider explain things in a way that was easy to understand? 2. During your most recent visit, did this provider listen carefully to you? 3. During your most recent visit, did this provider show respect for what you had to say? 4. During your most recent visit, did this provider spend enough time with you? 	Patient Reported Data/Survey
Knowledge of Patient	<p>Survey respondents' scoring of their satisfaction with how well doctors know them.</p> <ol style="list-style-type: none"> 1. During your most recent visit, did this provider have the medical information they needed about you? 2. How would you rate this provider's knowledge of you as a person, including values and beliefs that are important to you? 	Patient Reported Data/Survey
Adult Behavioral Health	<p>Survey respondents' scoring of whether doctors talked to them about their mental health.</p> <ol style="list-style-type: none"> 1. During your most recent visit, did anyone in this provider's office ask you if there was a period of time when you felt sad, empty, or depressed? 2. During your most recent visit, did you and anyone in this provider's office talk about things in your life that worry you or cause you stress? 	Patient Reported Data/Survey

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
Self-Management Support	<p>Survey respondents' scoring of whether healthcare providers talked with them and their family about goals for good health and ways to meet these goals.</p> <ol style="list-style-type: none"> 1. During your most recent visit, did you and anyone in this provider's office talk about specific goals for your health? 2. During your most recent visit, did anyone in this provider's office ask you if there are things that make it hard for you to take care of your health? 	Patient Reported Data/Survey
Willingness to Recommend	<p>Survey respondents reported YES, they would definitely recommend their doctor to family and friends.</p>	Patient Reported Data/Survey

Pediatric Primary Care Patient Experience Survey Measures

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
Organizational Access	<p>Survey respondents' scoring of satisfaction with their ability to get timely appointments, care, and information:</p> <ol style="list-style-type: none"> 1. When you called this provider's office to get an appointment for care your child needed right away, how often did you get an appointment as soon as your child needed? 2. When you made an appointment for a check-up or routine care for your child with this provider, how often did you get an appointment as soon as your child needed? 3. When you called this provider's office during regular office hours, how often did you get an answer to your medical question that same day? 	Patient Reported Data/Survey
Office Staff	<p>Survey respondents' scoring of their interactions with office staff.</p> <ol style="list-style-type: none"> 1. Thinking about your child's most recent visit, was the staff from this provider's office as helpful as you thought they should be? 2. Thinking about your child's most recent visit, did the staff from this provider's office treat you with courtesy and respect? 	Patient Reported Data/Survey
Integration of Care	<p>Survey respondents' scoring of their satisfaction with their providers' integration of their care.</p> <ol style="list-style-type: none"> 1. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and other doctors who specialize in one area of health care. In the last 6 months, did your child see a specialist for a particular health problem? 2. During your most recent visit, did the provider seem informed and up-to-date about the care your child got from specialists? 3. Did someone from this provider's office follow up to give you those results? 	Patient Reported Data/Survey

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
Communication	<p>Survey respondents' scoring of their satisfaction with their patient-providers' communication.</p> <ol style="list-style-type: none"> 1. During your child's most recent visit, did this provider explain things in a way that was easy for your child to understand? 2. During your most recent visit, did this provider listen carefully to your child? 3. Did this provider give you enough information about what you needed to do to follow up on your child's care? 4. During your child's most recent visit, did this provider explain things about your child's health in a way that was easy to understand? 5. During your child's most recent visit, did this provider listen carefully to you? 6. During your most recent visit, did this provider show respect for what you had to say? 7. During your most recent visit, did this provider spend enough time with your child? 	Patient Reported Data/Survey
Knowledge of Patient	<p>Survey respondents' scoring of their satisfaction with how well doctors know them.</p> <ol style="list-style-type: none"> 1. During your child's most recent visit, did this provider seem to know the important information about your child's medical history? 2. How would you rate this provider's knowledge of your child as a person – special abilities, concerns, fears? 	Patient Reported Data/Survey
Self-Management Support	<p>Survey respondents' scoring of whether healthcare providers talked with them and their family about goals for good health and ways to meet these goals.</p> <ol style="list-style-type: none"> 1. During your child's most recent visit, did you and anyone in this provider's office talk about specific goals for your child's health? 2. During your child's most recent visit, did anyone in this provider's office ask you if there are things that make it hard for you to take care of your child's health? 	Patient Reported Data/Survey
Willingness to Recommend	<p>Survey respondents reported YES, they would definitely recommend their doctor to family and friends.</p>	Patient Reported Data/Survey
Pediatric Development	<p>Survey respondents' scoring of whether doctors talked to them about how well their child was growing, moving, speaking, learning, and getting along with others.</p> <ol style="list-style-type: none"> 1. During your child's most recent visit, did you and anyone in this provider's office talk about your child's learning ability? 2. During your child's most recent visit, did you and anyone in this provider's office talk about the kinds of behaviors that are normal for your child at this age? 3. During your child's most recent visit, did you and anyone in this provider's office talk about how your child's body is growing? 4. During your child's most recent visit, did you and anyone in this provider's office talk about your child's moods and emotions? 	Patient Reported Data/Survey

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
Pediatric Preventive Care	<p>Survey respondents' scoring of whether doctors gave advice about keeping their child safe and healthy.</p> <ol style="list-style-type: none"> 1. During your child's most recent visit, did you and anyone in this provider's office talk about things you can do to keep your child from getting injured? 2. During your child's most recent visit, did you and anyone in this provider's office talk about how much time your child spends on a computer and in front of a TV? 3. During your child's most recent visit, did you and anyone in this provider's office talk about how much or what kind of food your child eats? 4. During your child's most recent visit, did you and anyone in this provider's office talk about how much or what kind of exercise your child gets? 5. During your child's most recent visit, did you and anyone in this provider's office talk about how your child gets along with others? 6. During your child's most recent visit, did you and anyone in this provider's office talk about whether there are any problems in your household that might affect your child? 	Patient Reported Data/Survey

All scores for measures of patient experience in medical groups were pre-calculated by and received from the Massachusetts Health Quality Partners (MHQP).

Patient Experience measures scores are rated on a scale from 0 to 100. Each survey response is converted to numeric format, with 100 as the most favorable response. Related questions are averaged to create a respondent-level score for each measure. The respondents' measure scores are then case mix adjusted before aggregating to the medical group level and a statewide score.

MHQP does not report scores for practices or groups with insufficient sample size, but individuals from these small practices or groups are counted at more aggregated levels, once sufficient sample size is reached.

Metrics: The Leapfrog Group

Steward: Varied

CHIA Data Source: The Leapfrog Group Hospital Survey

Population: All Payers, All Ages

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
NTSV Cesarean Section	Percent of cesarean sections for first-time pregnancy (nulliparous) that has reached 37th week or later (term) and consists of one fetus (singleton) in the head-down position (vertex).	Hospital Survey derived from health records
	Fully Meets Standard < = 23.9%	
	Substantial Progress > 23.9% and < = 27.0%	
	Some Progress > 27.0% and < = 33.3%	
	Willing to Report > 33.3%	
Elective Delivery Prior to 39 Completed Weeks Gestation	Percent of deliveries that were elective and not medically necessary prior to 39 completed weeks gestation.	Hospital Survey derived from health records
	Fully Meets Standard < = 5%	
	Substantial Progress > 5% and < = 10%	
	Some Progress > 10% and < = 15%	
	Willing to Report > 15%	
Rate of Episiotomy	Percent of vaginal deliveries (excluding those coded with shoulder dystocia) during which an episiotomy is performed.	Hospital Survey derived from health records
	Fully Meets Standard < = 5%	
	Substantial Progress > 5% and < = 10%	
	Some Progress > 10% and < = 15%	
	Willing to Report > 15%	
Hand Hygiene	<ul style="list-style-type: none"> The Hand Hygiene measures processes and protocols that hospitals have in place regarding monitoring hand hygiene practices, fostering a culture of good hand hygiene, offering training and education, and providing equipment. For complete description of measure scoring, see: https://www.leapfroggroup.org/sites/default/files/Files/2021HospitalSurveyScoringAlgorithm_20210913_v8.2%20%28version%203%29.pdf 	Hospital Survey derived from health records

MEASURE NAME	DESCRIPTION	PRIMARY DATA SOURCE
NQF Safe Practices	<p>Three (3) NQF Safe Practice measures are collected by The Leapfrog Group on the Leapfrog Hospital Survey. They measure a hospital's progress toward implementing NQF-endorsed processes and protocols to reduce and prevent adverse events. Through participation in the Leapfrog Hospital Survey, hospitals are able to earn up to 100 – 120 points for each Safe Practice.</p> <ul style="list-style-type: none"> For complete description of measure scoring, see: https://www.leapfroggroup.org/sites/default/files/Files/2021HospitalSurveyScoringAlgorithm_20210913_v8.2%20%28version%20%29.pdf 	Hospital Survey

Definition:

Quality performance data were received from The Leapfrog Group as pre-calculated scores, including comparisons to standards defined by The Leapfrog Group. Participation in the Leapfrog Hospital survey is voluntary; where a hospital does not complete the survey or report on certain items in the survey, the data for that entity is also not included in the report.

For more information on Leapfrog's scoring methods, see:

https://www.leapfroggroup.org/sites/default/files/Files/2021HospitalSurveyScoringAlgorithm_20210913_v8.2%20%28version%20%29.pdf

For more information on measure specifications and calculations, see:

https://www.leapfroggroup.org/sites/default/files/Files/2021HospitalSurvey_20210913_v8.2%20%28version%20%29.pdf

Metrics: Readmissions

CHIA has adapted the Hospital-Wide All-Cause Unplanned 30-day Readmission Measure (NQF #1789) developed by CMS and the Yale Center for Outcomes Research and Evaluation to report on all-payer readmissions in the Commonwealth. The measure was applied to CHIA's Hospital Inpatient Discharge Database, which is collected from all non-federal acute care hospitals in Massachusetts. This year's report uses the 2021 CMS readmission measure methodology (version 10.0), which updates the planned readmissions algorithm. Some discontinuity in trends may be attributable to the change in diagnostic coding from ICD-9-CM to ICD-10-CM.

A readmission is defined as an inpatient admission to an acute care facility in Massachusetts occurring within 30 days of an eligible index discharge. Analyses include eligible discharges for adults aged 18 and older with any payer, excluding discharges for obstetric or primary psychiatric care. All readmissions are counted except for those that are considered planned.

Readmission rates are calculated as follows: First, eligible hospital discharges are defined. Second, from among this set of eligible discharges, the number of eligible readmissions within 30 days is derived. Then, the latter is divided by the former and turned into a percentage to calculate the observed readmission rate.

Please refer to the Hospital-Wide Adult All-Payer Readmissions Report (published in December 2019), and to the Behavioral Health and Readmissions in Massachusetts Acute Care Hospitals Report (October 2020) Technical Appendices for information on methodology for these calculations. The full reports and accompanying materials, including the Technical Appendix are available at:

Hospital System Affiliations

Current as of publication date: March 14, 2022

HOSPITAL NAME	AFFILIATION
Noble Hospital	Baystate Health
Baystate Franklin Medical Center	Baystate Health
Baystate Wing Hospital And Medical Centers	Baystate Health
Baystate Medical Center	Baystate Health
Fairview Hospital	Berkshire Health System
Berkshire Medical Center Inc	Berkshire Health System
New England Baptist Hospital	Beth Israel Lahey
Beth Israel Deaconess Hospital - Needham	Beth Israel Lahey
Beth Israel Deaconess Hospital-Milton Inc	Beth Israel Lahey
Anna Jaques Hospital	Beth Israel Lahey
Beth Israel Deaconess Hospital - Plymouth	Beth Israel Lahey
Beth Israel Deaconess Medical Center	Beth Israel Lahey
Mount Auburn Hospital	Beth Israel Lahey
Lahey Hospital & Medical Center, Burlington	Beth Israel Lahey
Winchester Hospital	Beth Israel Lahey
Northeast Hospital	Beth Israel Lahey
Addison Gilbert Hospital	Beth Israel Lahey
Falmouth Hospital	Cape Cod Health Care
Cape Cod Hospital	Cape Cod Health Care
Athol Memorial Hospital	Heywood Health
Heywood Hospital	Heywood Health
Brigham And Women's Faulkner Hospital	MassGeneral Brigham
Newton-Wellesley Hospital	MassGeneral Brigham
Massachusetts Eye And Ear Infirmary	MassGeneral Brigham
Cooley Dickinson Hospital Inc,The	MassGeneral Brigham
Massachusetts General Hospital	MassGeneral Brigham
Nantucket Cottage Hospital	MassGeneral Brigham
Brigham And Women's Hospital	MassGeneral Brigham
North Shore Medical Center	MassGeneral Brigham
Martha's Vineyard Hospital Inc	MassGeneral Brigham

HOSPITAL NAME	AFFILIATION
Boston Medical Center Corporation	Non-Affiliated
Adcare Hospital Of Worcester Inc	Non-Affiliated
Emerson Hospital	Non-Affiliated
Milford Regional Medical Center	Non-Affiliated
Cambridge Health Alliance	Non-Affiliated
Sturdy Memorial Hospital	Non-Affiliated
Mercy Medical Center	Non-Affiliated
Franciscan Children's Hospital & Rehab Center	Non-Affiliated
Boston Children's Hospital	Non-Affiliated
Southcoast Hospital Group, Inc	Non-Affiliated
Shriners' Hospital For Children - Boston, The	Non-Affiliated
Shriners' Hospital For Children (The)	Non-Affiliated
South Shore Hospital	Non-Affiliated
Holyoke Medical Center	Non-Affiliated
Signature Healthcare Brockton Hospital	Non-Affiliated
Lawrence General Hospital	Non-Affiliated
Northampton Va Medical Center	Non-Affiliated
Dana-Farber Cancer Institute	Non-Affiliated
Cambridge Health Alliance - Everett Hospital	Non-Affiliated
Saint Luke's Hospital	Non-Affiliated
Tobey Hospital	Non-Affiliated
Nashoba Valley Medical Center	Steward Health Care Systems
Carney Hospital	Steward Health Care Systems
Good Samaritan Medical Center	Steward Health Care Systems
Holy Family Hospital	Steward Health Care Systems
St Elizabeth's Medical Center	Steward Health Care Systems
Saint Anne's Hospital	Steward Health Care Systems
Norwood Hospital	Steward Health Care Systems
Morton Hospital	Steward Health Care Systems
Holy Family Hospital - Merrimack Valley	Steward Health Care Systems
Metrowest Medical Center	Tenet Healthcare
St Vincent Hospital	Tenet Healthcare
Leonard Morse Hospital	Tenet Healthcare
Lowell General Hospital - Main Campus	Tufts Medicine
Hallmark Health System	Tufts Medicine
Tufts Medical Center	Tufts Medicine
Lowell General Hospital - Saints Campus	Tufts Medicine
Harrington Memorial Hospital	UMass Memorial Health Care
Marlborough Hospital	UMass Memorial Health Care
Clinton Hospital Association	UMass Memorial Health Care

HOSPITAL NAME	AFFILIATION
Umass Memorial Medical Center Inc	UMass Memorial Health Care
HealthAlliance-Clinton Hospital	UMass Memorial Health Care
Umass Memorial Medical Center - Memorial Campus	UMass Memorial Health Care
HealthAlliance-Clinton Hospital - Clinton	UMass Memorial Health Care
Umass Memorial Medical Center - University Campus	UMass Memorial Health Care
Bedford Va Medical Center	VA
Va Boston Healthcare System - Jamaica Plain	VA