



MBQIP Reporting & Performance: Regional and State Comparisons, 2012 vs. Q1-Q2 2013

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ABOUT MBQIP

The Medicare Beneficiary Quality Improvement Project (MBQIP) was created by the Federal Office of Rural Health Policy (ORHP) as a Flex Grant Program activity within the core area of quality improvement. The primary goal of MBQIP is for Critical Access Hospitals (CAHs) to implement quality improvement initiatives to improve their patient care.

CAHs are voluntarily reporting data on MBQIP quality measures. MBQIP Phase 1, which began in September 2011, includes inpatient pneumonia and heart failure measures. Phase 2, which began in September 2012, includes outpatient AMI, chest pain, surgical care, and HCAHPS measures. Phase 3, which began in September 2013, includes outpatient Emergency Department transfer communication measures and pharmacist CPOE/Verification of Medication Orders measures.

ABOUT THE MEASURES INCLUDED IN THIS DATA REPORT

This data report presents data from 2012 and the first six months of 2013 on nine MBQIP measures:

- **INPATIENT HEART FAILURE - DISCHARGE INSTRUCTIONS:** heart failure patients discharged home with written instructions or educational material given to patient or care giver at discharge or during the hospital stay addressing activity level, diet, discharge medications, follow-up appointment, weight monitoring, and what to do if symptoms worsen.
- **INPATIENT HEART FAILURE - EVALUATION OF LVS FUNCTION:** heart failure patients with documentation in the hospital record that an evaluation of the left ventricular systolic (LVS) function was performed before arrival, during hospitalization, or is planned for after discharge.
- **INPATIENT HEART FAILURE - ACEI/ARB FOR LVSD:** heart failure patients with left ventricular systolic dysfunction (LVSD) and without angiotensin converting enzyme inhibitor (ACE inhibitor) contraindications or angiotensin receptor blocker (ARB) contraindications who are prescribed an ACE inhibitor or an ARB at hospital discharge.
- **INPATIENT PNEUMONIA - BLOOD CULTURE PRIOR TO FIRST ANTIBIOTIC:** pneumonia patients whose initial emergency room blood culture was performed prior to the administration of the first hospital dose of antibiotics.
- **INPATIENT PNEUMONIA - APPROPRIATE FIRST ANTIBIOTIC:** immunocompetent patients with pneumonia who receive an initial antibiotic regimen that is consistent with current guidelines.
- **OUTPATIENT AMI - TIMELY FIBRINOLYTIC THERAPY:** AMI patients receiving fibrinolytic therapy during the hospital stay and having a time from hospital arrival to fibrinolysis of 30 minutes or less.
- **OUTPATIENT AMI/CHEST PAIN - ASPIRIN AT ARRIVAL:** AMI and chest pain patients without aspirin contraindications who received aspirin within 24 hours before or after hospital arrival.
- **OUTPATIENT SURGERY - PREVENTATIVE ANTIBIOTIC :** surgical patients who received prophylactic antibiotics within one hour prior to surgical incision.
- **OUTPATIENT SURGERY - RECEIVED APPROPRIATE ANTIBIOTIC:** surgical patients who received the recommended antibiotics for their particular type of surgery.

GEOGRAPHIC REGIONS USED IN THIS REPORT

This report groups Critical Access Hospitals by geographic regions comprised of Flex Program states as follows:

- **REGION A:** Maine, Massachusetts, New Hampshire, New York, Pennsylvania, Vermont
- **REGION B:** Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia
- **REGION C:** Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, Ohio, Wisconsin
- **REGION D:** Arizona, California, Hawaii, Nevada, New Mexico, Oklahoma, Texas
- **REGION E:** Alaska, Colorado, Idaho, Montana, North Dakota, Oregon, South Dakota, Utah, Washington, Wyoming

RESULTS

Tables 1 and 2 compare the percentages of CAHs nationally and by region that reported data on at least one patient for each of the inpatient and outpatient measures in 2012 and the first six months of 2013.

Table 1. Percent of CAHs Reporting MBQIP Inpatient Measures in 2012 vs. Q1-Q2 2013

	Number of CAHs	Heart Failure						Pneumonia			
		Discharge Instructions		Assessed LVS		ACEI/ARB for LVSD		Blood Culture Before Antibiotic		Appropriate 1st Antibiotic	
		2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
All CAHs	1335	77.2	72.6	79.5	76.2	62.3	53.5	76.9	73	80.9	78.5
Region A	67	92.5	89.6	92.5	91	82.1	71.6	92.5	91	92.5	92.5
Region B	237	75.5	72	75.9	73.7	65.8	58.9	74.7	71.2	76.4	73.7
Region C	560	84.8	82	88.4	87.1	72.7	62.9	85.2	81.6	90.7	87.9
Region D	189	57.7	51.9	58.2	51.9	38.6	33.3	59.3	58.7	59.8	62.4
Region E	282	73	64.2	75.9	69.5	50	39.7	70.6	62.8	76.6	71.3

Table 2. Percent of CAHs Reporting Data for MBQIP Outpatient Measures in 2012 vs. Q1-Q2 2013

	Number of CAHs	AMI / Chest Pain				Surgical Care			
		Fibrinolytic Therapy Timely		Aspirin at Arrival		Preventative Antibiotics Timely		Preventative Antibiotics Appropriate	
		2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
All CAHs	1335	26.9	21.1	57.3	55.7	22.5	19.9	21.9	19.5
Region A	67	33.3	28.8	59.1	56.1	33.3	31.8	33.3	33.3
Region B	237	29	20.2	58	49.6	13.4	13.9	13	13.9
Region C	560	25.8	19.8	62	62	29.4	25.8	28.9	24.6
Region D	189	20.1	16.4	43.9	42.9	11.1	10.1	10.6	10.1
Region E	282	30.2	26	55.9	56.6	21.4	17.1	20.6	17.1



Figure 1 compares the percentages of patients at CAHs nationally and within each region who received recommended care for each of the inpatient and outpatient measures in 2012 and the first six months of 2013.

Figure 1. Regional Comparisons of CAH Performance, 2012 vs. Q1-Q2 2013

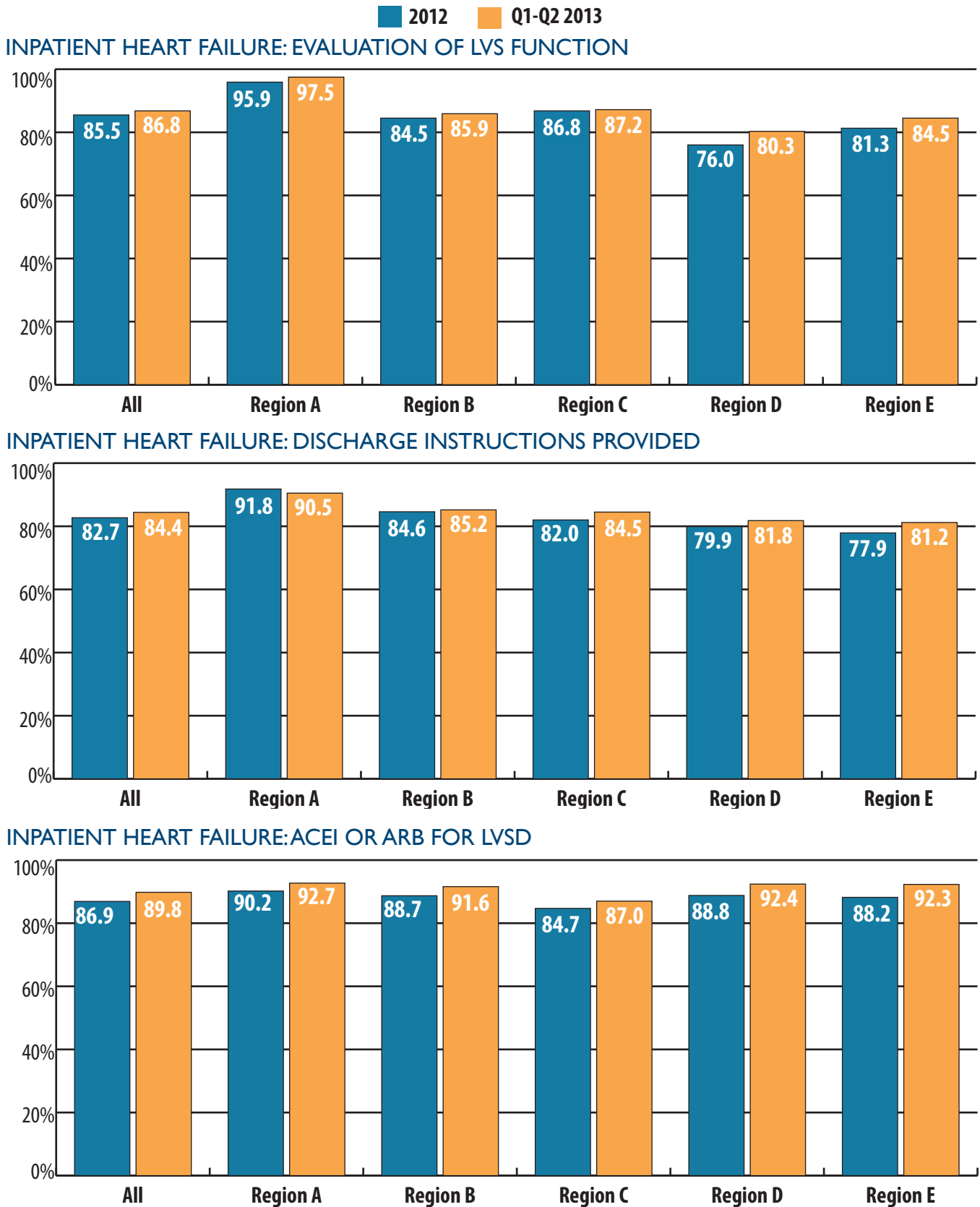


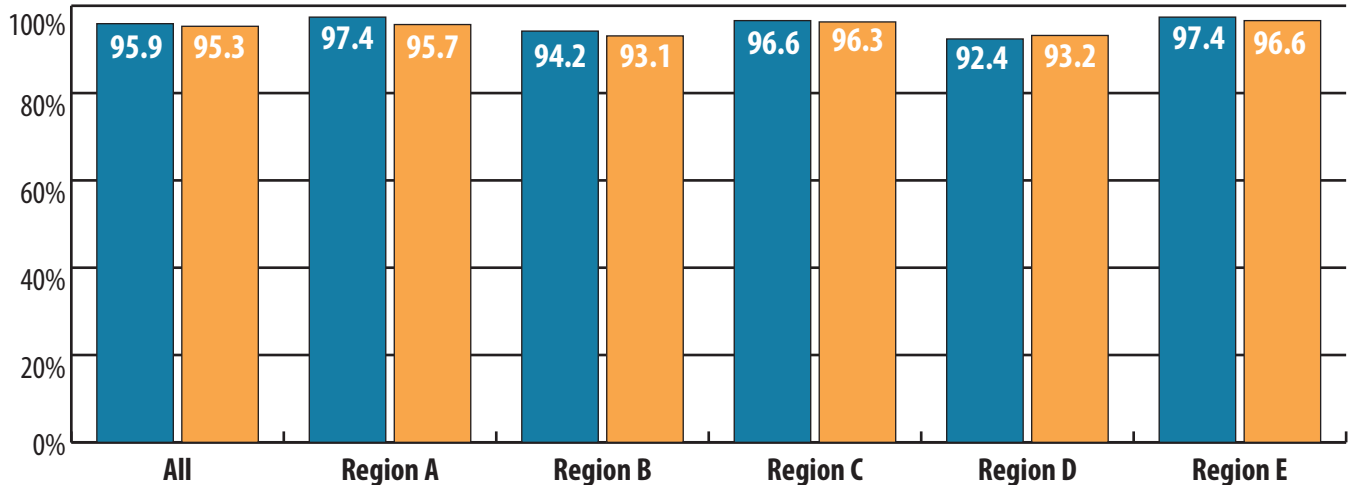
Figure 1, (cont). Regional Comparisons of CAH Reporting & Performance



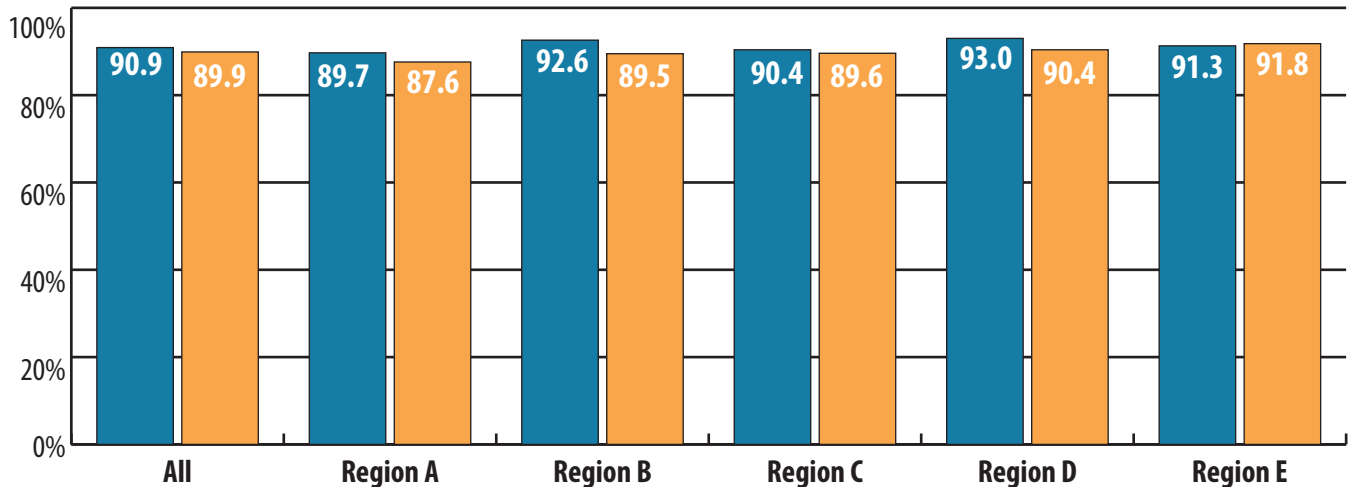
Figure 1 (cont). Regional Comparisons of CAH Reporting & Performance

■ 2012 ■ Q1-Q2 2013

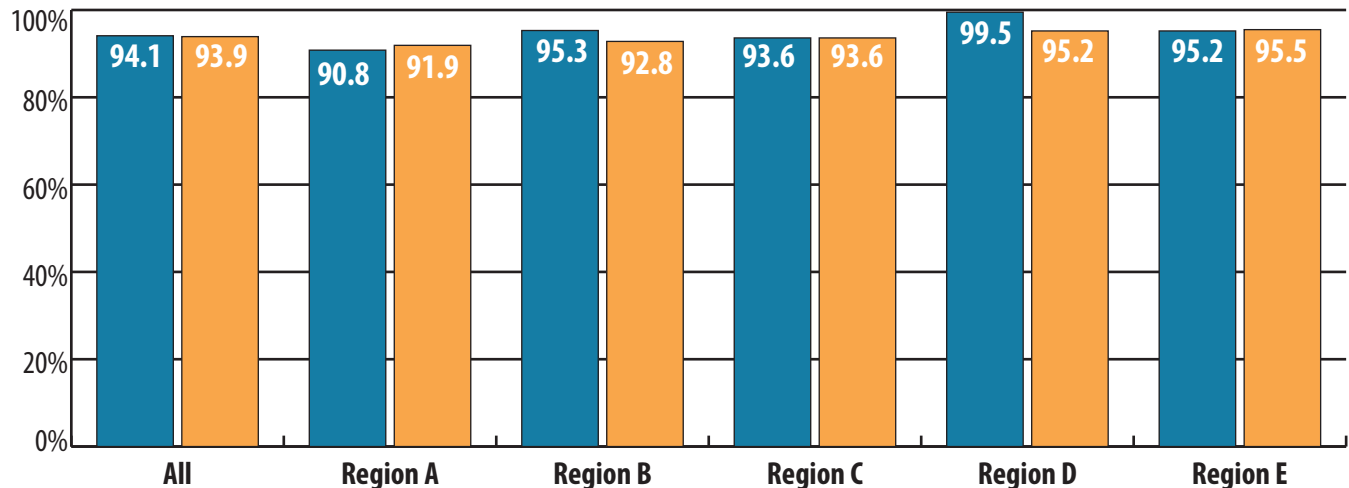
OUTPATIENT AMI / CHEST PAIN:ASPIRIN ADMINISTERED AT ARRIVAL



OUTPATIENT SURGERY: PREVENTATIVE ANTIBIOTICS ADMINISTERED | HR BEFORE INCISION



OUTPATIENT SURGERY: MOST APPROPRIATE PREVENTATIVE ANTIBIOTICS ADMINISTERED



Tables 3 and 4 provides the percentages of patients in each individual state’s CAHs who received recommended care for each of the inpatient and outpatient measures in 2012 and the first six months of 2013.

Table 3. Percent of Patients at CAHs Receiving Recommended Care for MBQIP Inpatient Measures in 2012 vs. Q1-Q2 2013, by State

	Discharge Instructions		Assessed LVS		ACEI/ARB for LVSD		Blood Culture Before Antibiotic		Appropriate First Antibiotic	
	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
Alabama	81.8 ¹	81.3 ¹	55.6 ¹	62.5 ¹	100 ¹	100 ¹	91.4	100 ¹	84.6	82.4 ¹
Alaska	68.6	76	69.4	82.1	100 ¹	86.7 ¹	94.1	98	85.7	83.7
Arizona	81.6	91.7	89.7	90.2	100 ¹	100 ¹	88.5	88.1	90.5	89.5
Arkansas	81.2	85	80.7	83.5	84	94.1	93.8	94.1	89.7	92.4
California	81.2	83.4	83.4	89.1	90	95.2	94.1	95.6	86.5	90.2
Colorado	62.7	74.6	70.1	79.1	77.8	90 ¹	92.7	92.8	82	81.5
Florida	88.9	93.9	80	82.1	95.1	97	92.9	96.4	76.6	81.7
Georgia	83.2	81.5	84.2	89.5	87.2	92.8	93.2	97.5	86	84.1
Hawaii	81.8 ¹	100 ¹	86.2	100 ¹	100 ¹	100 ¹	95.1	100	95.6	90.9 ¹
Idaho	72.4	66.3	77.6	81.6	90	89.3	92.9	95.2	84.4	85.9
Illinois	85.1	90.4	90.5	91.8	84.5	91	96.1	96.6	87.1	88.2
Indiana	90.3	90.1	91.6	95.1	86.7	87.9	94.9	96.7	87.4	91.3
Iowa	79.6	88.4	84.1	84.3	84	86	95.2	94.9	87.6	86
Kansas	54.8	54.4	65.3	62.5	75.3	69.2	91.7	96.6	79.9	80.3
Kentucky	87.5	93.6	78.7	80	85.6	89.9	93.6	94.4	87.5	85.3
Louisiana	86.5	82.1	91.6	95.5	91.2	82.4	92.3	86.4	86.5	89.6
Maine	93.7	97.3	98.5	100	91	100	98	99.1	96.8	98.8
Massachusetts	93.3	100	96.7	100	100 ¹	100 ¹	98	97.6	100	93.5
Michigan	88.3	89.1	93.4	93.5	88.3	93.5	94.7	97.3	94.4	92.6
Minnesota	70.1	70.2	82.9	78.9	82.5	85.4	92.8	94.4	86.4	89.4
Mississippi	66.4	57.9	72	72.3	81.3	78.9	80.9	86.4	80.8	76.7
Missouri	81.8	83.8	81.1	83.6	88.5	80.3	94	96.1	87.4	86.5
Montana	74.8	83.9	76.9	84.3	91.6	95.9	93.2	94.9	86.3	86.8
Nebraska	71.8	85.9	81.3	85.9	78.7	85.5	97	95.2	93.4	91.9
Nevada	75.9	88.1	59.6	82.2	82.4 ¹	100 ¹	90.2	85.9	81.4	88.1
New Hampshire	94.1	96.4	97.5	97.5	88.5	94.3	97.8	99.3	94.5	97.7

1. Use caution when comparing this rate, as the percentage reflects less than 25 reported cases.

Table 3, Continued.

	Discharge Instructions		Assessed LVS		ACEI/ARB for LVSD		Blood Culture Before Antibiotic		Appropriate First Antibiotic	
	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
New Mexico	84.5	91.5	73.6	84	93.8 ¹	92.9 ¹	94.4	95.7	85.2	89.1
New York	93.9	98.3	91	90.8	100 ¹	100 ¹	95.5	94.6	88.4	89.2
North Carolina	94.2	95.3	98.1	97.9	96.1	95.3	97.8	96	92.8	91.6
North Dakota	80.7	93	84.4	88.4	91.9	94.4	95	93.3	85.6	89.7
Ohio	88.4	88.4	93.7	95.7	87.2	91.3	94.7	95.8	92.7	93.1
Oklahoma	73.2	72.7	62.4	67.2	79.2	90.2	92.7	92.6	81.7	79.4
Oregon	83.8	84	84.5	88.1	90.3	92.5	96.6	96.3	90	91.7
Pennsylvania	89.1	79.5	92.9	95.9	87.9	83.9	95.9	94.6	85.1	89.1
South Carolina	78.4	50	86.1	78.6	84	85.7 ¹	90.8	87.9	92.8	82.1
South Dakota	75.2	75	76.2	74.7	75	85.7 ¹	91.7	91.3	78	79.9
Tennessee	87.8	83.6	87.6	79.5	93.1	82.4 ¹	96.7	96.4	91.8	92.2
Texas	82	77.4	81.2	78.9	89.8	88.5	95.5	93.1	89.3	87.3
Utah	57.5	69.2	58.5	53.3	85.7 ¹	100 ¹	90	90.9	89.8	83.9
Vermont	82.3	84.2	98.9	98.1	90.9 ¹	93.8	98.6	97.7	98.2	97.4
Virginia	95.5	95	94.7	98.2	88.9	88.2 ¹	91.6	96.8	88.4	96.5
Washington	83.4	83.1	88.5	87.6	86.9	93.1	95	95.7	87.8	91
West Virginia	81.4	88.1	90.6	90.1	88.5	98.3	92.8	92.6	87.7	81.3
Wisconsin	88.8	91.8	90.7	92.7	86.1	88.9	96.7	97.3	95.3	94.6
Wyoming	82.7	72.9	87.9	85	86.7	89.5 ¹	95.2	92.1	90	92.8

1. Use caution when comparing this rate, as the percentage reflects less than 25 reported cases.

Table 4. Percent of Patients at CAHs Receiving Recommended Care for MBQIP Outpatient Measures in 2012 vs. Q1-Q2 2013, by State

	Fibrinolytic Therapy		Aspirin at Arrival		Timely Antibiotics		Appropriate Antibiotics	
	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
Alabama	*	*	100	97.4	*	*	*	*
Alaska	40 ¹	100 ¹	100 ¹	100 ¹	46.7 ¹	77.8 ¹	84.6 ¹	100 ¹
Arizona	*	50 ¹	100 ¹	96.9	100 ¹	100 ¹	0 ¹	100 ¹
Arkansas	54.2	40	91.3	91.3	82.4	80.5	98.8	98.2
California	57.1 ¹	36.4 ¹	95.3	93	94.2	91.1	100	96.1
Colorado	30.8 ¹	16.7 ¹	98.8	86.4	80 ¹	82.6 ¹	88.9 ¹	94.7 ¹
Florida	83.3 ¹	100 ¹	98.1	96.5	100 ¹	100 ¹	100 ¹	100 ¹
Georgia	25 ¹	20 ¹	93.4	92.8	94.2	93.6	92.4	87
Hawaii	25 ¹	0 ¹	86.7	94.7	100 ¹	100 ¹	100 ¹	100 ¹
Idaho	40 ¹	40 ¹	96	96.4	85.5	85.3	98.3	90.5
Illinois	72.2 ¹	77.8 ¹	96.3	95.8	90.7	98	94.3	92.2
Indiana	50 ¹	60 ¹	96.4	96.3	94.5	91	94.9	95.1
Iowa	21.4 ¹	33.3 ¹	97	97.2	94.4	97.8	95.7	95.3
Kansas	42.4	38.9 ¹	92.4	92.6	90	98.4	92.1	96.8
Kentucky	33.3 ¹	71.4 ¹	93.9	90.1	*	*	*	*
Louisiana	43.5 ¹	*	95.7	98.9	97.5	*	100	*
Maine	63.3	75	97.9	99.4	86	93.8	80.8	89.9
Massachusetts	*	100 ¹	87.5 ¹	96	100 ¹	50 ¹	80 ¹	0 ¹
Michigan	46.3	67.7	97.5	97.5	95.2	86.4	90.3	86.9
Minnesota	45.2	44.4	95.9	96.7	85.7	84.7	96.1	94.1
Mississippi	14.3 ¹	80 ¹	91.6	92.1	100 ¹	*	100 ¹	*
Missouri	16.7 ¹	0 ¹	95.9	94	95.7 ¹	97.8	95.5 ¹	100
Montana	50	42.9 ¹	99	95.4	94.2	88.1	97.1	97.8
Nebraska	40.7	33.3	96.9	96	88.1	82.1	94.8	95.5
Nevada	50 ¹	100 ¹	97.9	97.3	92.6	94.3	100	97.1
New Hampshire	68.4 ¹	100 ¹	98.3	100	94.3	88.9	97	97.7
New Mexico	40 ¹	51.6	87.8	99.1	86.4 ¹	100 ¹	100 ¹	88.9 ¹
New York	23.5 ¹	25 ¹	96.1	95.1	93.2	100 ¹	95.7	100 ¹
North Carolina	51.9	78.6 ¹	95.8	93.8	95.8	89.8	95.5	96

* No CAHs in the state reported data for this measure.

1. Use caution when comparing this rate, as the percentage reflects less than 25 reported cases.

Table 4, Continued.

	Fibrinolytic Therapy		Aspirin at Arrival		Timely Antibiotics		Appropriate Antibiotics	
	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013	2012	Q1-Q2 2013
North Dakota	48.9	40 ¹	96.5	97.6	93.9	96.4	87.5	93.1
Ohio	66.7 ¹	0 ¹	97.3	96.2	88.6	98.1	91.2	94.9
Oklahoma	25 ¹	17.4 ¹	91.7	92.3	100 ¹	33.3 ¹	100 ¹	100 ¹
Oregon	64.3 ¹	52.6 ¹	98.4	98.7	85.7	94.6	91.4	97.1
Pennsylvania	50 ¹	0 ¹	98.4	94.5	80.6	72.7	87.3	84.6
South Carolina	*	*	96.2	100 ¹	*	*	*	*
South Dakota	83.3 ¹	0 ¹	98.3	100 ¹	*	*	*	*
Tennessee	70.6 ¹	100 ¹	95	91.7	100 ¹	100 ¹	100 ¹	100 ¹
Texas	21.1 ¹	55 ¹	92.2	87.5	92.1	86.1	100	91.4
Utah	38.9 ¹	37.5 ¹	95.9	97.8	94.4 ¹	100 ¹	100 ¹	100 ¹
Vermont	*	71.4 ¹	*	79.5	*	*	*	*
Virginia	14.3 ¹	0 ¹	94.6	97.4	80 ¹	50 ¹	100 ¹	100 ¹
Washington	46.8	61.9 ¹	97.7	97.2	90.8	94.5	94.2	94.5
West Virginia	50	41.7 ¹	94.3	91.2	84.8	90 ¹	89.7	90 ¹
Wisconsin	56.4	35.3 ¹	97.6	96.9	87.4	84	91.5	89.9
Wyoming	36.6	37.5 ¹	95.7	96	96.7	98.4	100	98.4

* No CAHs in the state reported data for this measure.

1. Use caution when comparing this rate, as the percentage reflects less than 25 reported cases.

KEY POINTS

- Compared to 2012, regional rates of patients receiving recommended care at CAHs generally increased for most measures in the first six months of 2013.
- By state, there are large differences in performance on some measures. For example, for heart failure in Q1-Q2 2013, CAH performance by state ranges from 50% to 100% on the discharge measure, from 53.3% to 100% on the assessment of LVS measure, and from 69.2% to 100% on the ACEI/ARB for LVSD measure.