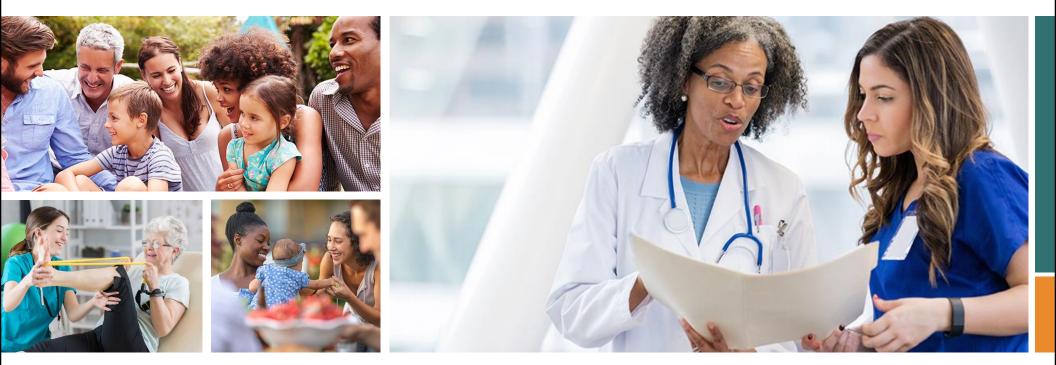
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# MINNESOTA HEALTH CARE QUALITY REPORT

2019 REPORT



**RELEASED FEBRUARY 2020** 

# 2019 Minnesota Health Care Quality Report

### WHO IS MN COMMUNITY MEASUREMENT?

As an independent nonprofit dedicated to empowering health care decision makers with meaningful data, MN Community Measurement (MNCM) is a statewide resource for timely, comparable information on health care costs and quality. While Minnesota has some of the best health indicators in the country, there continues to be wide variation in health care quality. Quality measurement in health care delivers value to patients, providers, payers and purchasers and the community. This report summarizes all clinical quality measures collected by MNCM in 2019. The measures were developed or chosen for public reporting to address gaps in quality and to focus community efforts on improvement.

### **PURPOSE OF THIS REPORT**

This report provides a summary view of all measures collected and reported by MNCM as well as historical trend. Additional data is available on <u>mnhealthscores.org</u> and in the detailed tables included in the <u>Appendix</u> to this report.

### **KEY FINDINGS & NOTES**

- Rates of depression follow-up care, improvement of symptoms, and remission measured at twelve months all increased significantly compared to last year's report. The statewide average for the depression follow up measure improved to nearly 30 percent, although four medical groups achieved rates above 50 percent for this measure.
- Avoiding antibiotic treatment in adults with acute bronchitis, which is a measure aimed at avoiding overuse of antibiotics, improved from 35.8 percent to 45.5 percent, with gains occurring broadly across many medical groups. Medical groups' performance on this measure ranged from 9.0 percent to 91.6 percent, indicating there is substantial room for improvement.
- New to this year's reporting by medical group is a measure of osteoporosis management in women who have had a fracture. MNCM added this measure in 2018 in response to evidence that Minnesota's performance on the measure was lagging the nation. The statewide average for this measure is 31.5 percent.

#### ACKNOWLEDGEMENTS

This report is possible because of the engagement of several stakeholders who are committed to continuous improvement and recognize the important role measurement plays in helping our community establish priorities and improve together.

MNCM extends our thanks to all medical groups and payers for contributing the data necessary for measurement, to the State of Minnesota for its support through the Statewide Quality Reporting and Measurement System, and to the many members of MNCM committees and workgroups providing ongoing guidance to shape this important work.

#### **REPORT PREPARATION DIRECTION**

Jessica Donovan, MPH, RN, PHN Measure Development Specialist

**Gunnar Nelson** Health Economist

#### DIRECT QUESTIONS OR COMMENTS TO support@mncm.org

QUALITY MEASURE		2019 Statewide	BENCHMAR	K OF CARE	VARIATION	RANGE OF RESULTS BY MEDICAL GROUP		
		Average (2018 Dates of Service)	Benchmark	Gap	Min/Mean/Benchmark/Max	Minimum	Maximum	
	Breast Cancer Screening	76.5%	85.9%	30,380		18.8%	96.2%	
LTH	Cervical Cancer Screening	71.3%	83.1%	53,063		40.2%	86.2%	
HEA	Colorectal Cancer Screening	71.1%	75.6%	59,997		0.0%	82.0%	
LIVE	Chlamydia Screening in Women	51.9%	64.5%	13,842		10.1%	86.8%	
PREVENTIVE HEALTH	Childhood Immunization Status (Combo 10)	56.2%	67.6%	5,382		25.9%	75.0%	
4	Immunizations for Adolescents (Combo 2)	31.2%	48.2%	5,283		14.6%	65.7%	
s	Optimal Diabetes Care	44.9%	50.5%	18,320		11.5%	58.7%	
lion	Diabetes Eye Exam	64.4%	68.9%	8,270		42.3%	84.4%	
IDN	Optimal Vascular Care	61.1%	65.6%	9,225		16.1%	75.7%	
CHRONIC CONDITIONS	Optimal Asthma Control - Adults	53.3%	69.0%	22,398		0.0%	95.0%	
INO	Optimal Asthma Control - Children	59.9%	72.4%	9,460		0.0%	92.1%	
CHR	Use of Spirometry Testing in the Assessment and Diagnosis of COPD	37.6%	49.8%	1,621		19.6%	66.0%	
	Adolescent Mental Health and/or Depression Screening	86.1%	99.3%	20,285		0.0%	100.0%	
	Adult PHQ-9 Utilization	74.3%	96.0%	28,156		0.0%	100.0%	
NC	Adult Depression: PHQ-9 Follow-Up at 6 Months	34.2%	42.4%	12,816		0.0%	66.2%	
SSIG	Adult Depression: 6 Month Response	13.9%	14.9%	4,404		0.0%	32.3%	
DEPRESSION	Adult Depression: 6 Month Remission	8.2%	9.2%	3,124		0.0%	21.3%	
DI	Adult Depression: PHQ-9 Follow-Up at 12 Months	29.8%	33.3%	8,994		0.0%	62.9%	
	Adult Depression: 12 Month Response	12.3%	15.4%	5,964		0.0%	32.0%	
	Adult Depression: 12 Month Remission	7.5%	9.8%	4,287		0.0%	20.0%	
~	Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis	45.5%	74.1%	4,468		9.0%	91.6%	
OTHER	Follow-Up Care for Children Prescribed ADHD Medication	39.5%	53.2%	866		23.6%	70.2%	
	Osteoporosis Management in Women Who Had a Fracture	31.5%	40.7%	202		22.6%	46.2%	

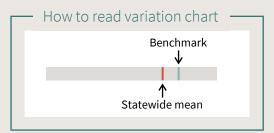
### STATEWIDE RESULTS FOR PRIMARY CARE MEASURES

This table provides an overview of the statewide rates by measure for primary care and shows significant variation and/or room for improvement in all measures. Even for measures where the statewide average is high, wide variation exists in performance across medical groups.

Statewide mean (average): The average performance rate among medical groups for the 2019 report year.

**Benchmark:** 90<sup>th</sup> percentile of medical groups or 90<sup>th</sup> percentile of patients, whichever is lower. This method prevents the benchmark from being too heavily influenced by only a few medical groups or by medical groups with small numbers of patients.

**Gap:** The additional number of patients who would reach optimal status or goal if all medical groups' rates were at least at benchmark.



QUA	LITY MEASURE	Central Pediatrics	Entira Family Clinics	Essentia Health	Health- Partners Central Minnesota Clinics	Health- Partners Clinics	Mankato Clinic	Park Nicollet Health Services	South Lake Pediatrics	Wayzata Children's Clinic
	Breast Cancer Screening		0		-		•		<	
E	Cervical Cancer Screening		0	0		•	0	•		
PREVENTIVE HEALTH	Colorectal Cancer Screening			•		•				
VE	Chlamydia Screening	•		0	-		0	•	0	0
ITI	Childhood Immunization	0	0	0		14.7	0	0		
EVE	Status (Combo 10)	0	0	0	-	•	0	0	<	<
PR	Immunizations for Adolescents	0	0	0	-	0	0	0		
	(Combo 2)									2
	Optimal Diabetes Care		•	•	•	•	•	•		
NS	Diabetes Eye Exam	<	0	•	-		0		<	
ITIC	Optimal Vascular Care				0	•	0	•		
CHRONIC CONDITIONS	Optimal Asthma Control - Adults		•			•				•
RONIC	Optimal Asthma Control - Children	•	0			•		•		
CHR	Use of Spirometry Testing in the Assessment and Diagnosis of COPD		0	0	-	0	0	•		
	Adolescent Mental Health and/or Depression Screening		0	•	0	•			•	•
	Adult Depression: PHQ-9 Utilization		•	0		٠	۲	•		
z	Adult Depression: PHQ-9 Follow-up at 6 Months		•			۲				
DEPRESSION	Adult Depression: 6 Month Response		•			•				
DEPR	Adult Depression: 6 Month Remission					•	0	•		
	Adult Depression: PHQ-9 Follow-up at 12 Months					•	•			
	Adult Depression: 12 Month Response		٠			•	•	•		
	Adult Depression: 12 Month Remission		•					•		
R	Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis		0	0	-	۲	0	۲	<	
OTHER	Follow-up Care for Children Prescribed ADHD Medication	0	<	0	<	0	0	0	•	0
	Osteoporosis Management in Women Who Had a Fracture		0	0	-	0	<	0		
Total perfo	number of measures as high	4	12	14	11	19	12	19	5	4
•	number of eligible measures	7	22	23	13	23	22	23	6	6

### HIGH PERFORMING MEDICAL GROUPS

Nine medical groups had rates significantly above the statewide average on at least 50 percent of the measures for which they were eligible\*.

Detailed results by medical group and clinic are available in the online appendix to this report and at <u>mnhealthscores.org.</u>

\*Included if eligible for at least five measures.

Above average

-

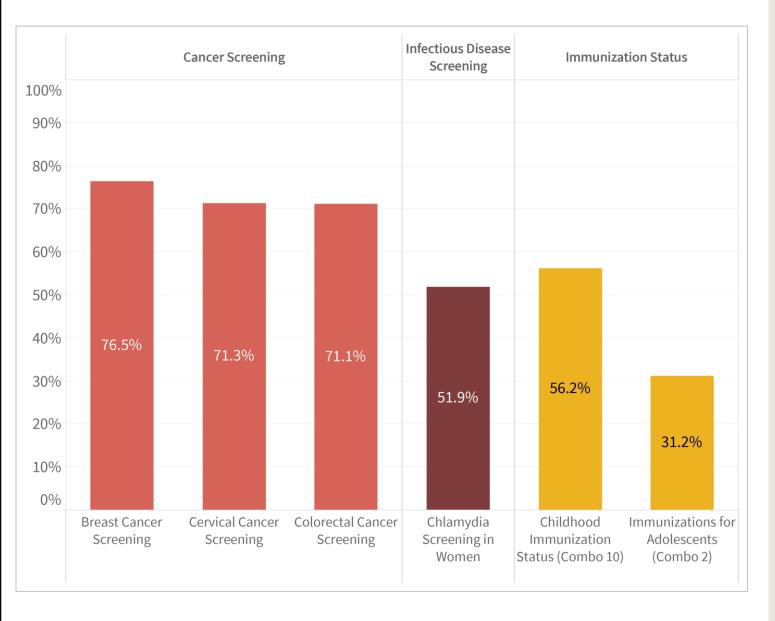
- Average or below average
- Not reportable for this measure (too few patients in measure denominator)

Not assigned to measure/no data

HP Central reports under HealthPartners Clinics for HEDIS measures

#### **Statewide Results**

2019 report year (2018 dates of service)



### AT A GLANCE

Out of the six preventive health measures, Immunizations for Adolescents continues to have the most opportunity for improvement.

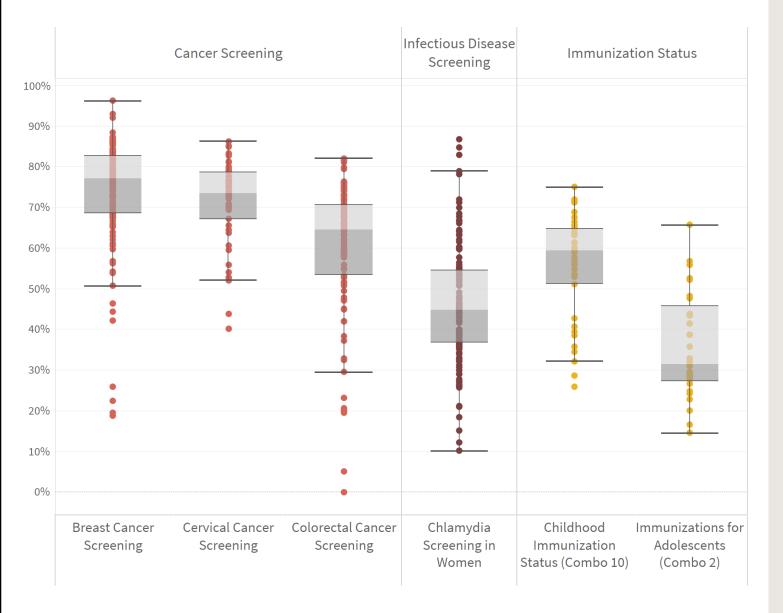
### **ELIGIBLE POPULATION**

- Breast Cancer Screening: Women ages 50-74
- Cervical Cancer Screening: Women ages 21-64
- Colorectal Cancer Screening: Adults ages 50-75
- Chlamydia Screening: Women ages 16-24
- Childhood Immunization Status: Children who are two years of age
- Immunization for Adolescents: Adolescents who are 13 years of age

*Measure descriptions available at end of report* 

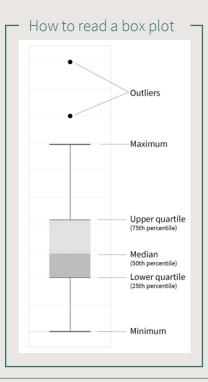
#### **Rate Variation by Medical Group**

2019 report year (2018 dates of service)



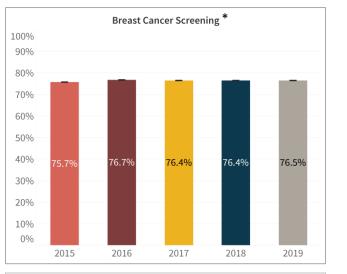
### **AT A GLANCE**

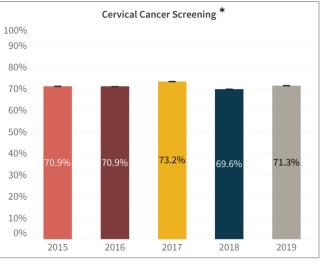
- There continues to be significant variation in medical group performance for all preventive health measures.
- In 2019, the widest range in performance was seen in the Chlamydia Screening in Women measure.
- Cervical Cancer Screening had the most consistent performance rates among medical groups.

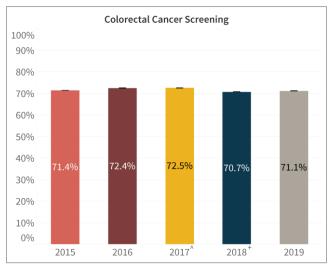


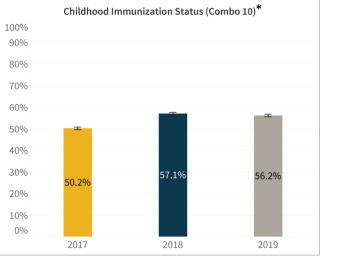
#### Statewide Trend Over Time

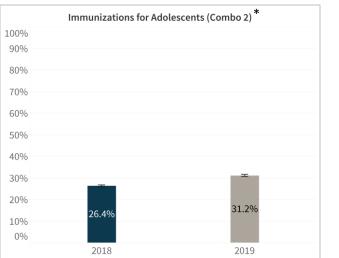
2019 report year (2018 dates of service)

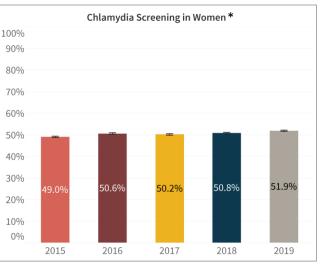












While the percentage of adolescents who received recommended immunizations remains low, the 2019 statewide rate saw statistically significant improvement compared to the 2018 statewide rate. Statewide rates for Chlamydia Screening and Cervical Cancer Screening also had statistically significant increases in the 2019 report year when compared to the 2018 report year. While the rate of childhood immunizations has decreased slightly from 2018, the change is not statistically significant.

\*2015 – 2018 results were adjusted to match 2019 patient population

<sup>A</sup> The criteria for including patients in the measure denominator changed in 2017. This change may have contributed to a change in statewide rates for this measure.

+ Changes to the measure denominator definition resulted in a significant drop in population for this measure and likely contributed to slight decrease in rate.

Highest Performers for Preventive Health Measures – Medical Group Level Results

			CA	NCER SCREENIN	IG	INFECTIOUS DISEASE SCREENING	IMMUNIZATIONS		
MEDICAL GROUP	Total number of measures as high performers	Total number of eligible measures	Breast Cancer Screening	Cervical Cancer Screening	Colorectal Cancer Screening	Chlamydia Screening	Childhood Immunization Status (Combo 10)	Immunizations for Adolescents (Combo 2)	
Affiliated Community Medical	3	6	•	0	•	0	•	0	
Alomere Health	3	6	•	0	•	•	0	0	
CentraCare Health	3	6	•	0	•	•	0	0	
Fairview Health Services	4	6	•	•	•	•	0	0	
HealthPartners Clinics	5	6	•	•	•	•	•	0	
Mayo Clinic	3	6	•	0	•	0	0	•	
Mayo Clinic Health System	3	6	•	•	0	0	•	0	
Obstetrics & Gynecology Associates	2	3	•	<	•	0			
Park Nicollet Health Services	4	6	•	•	٠	•	0	0	

● Above average ○ Average or below average

< Not reportable for this measure (too few patients in measure denominator)

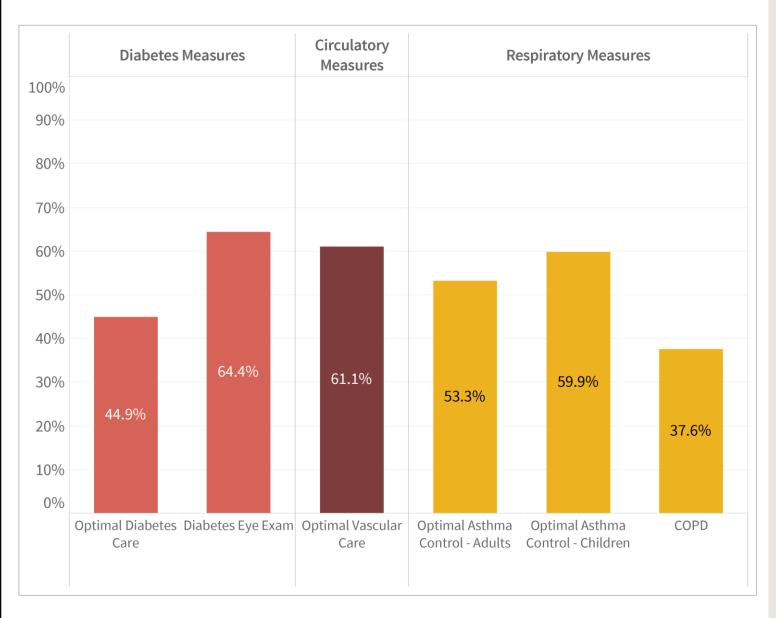
Not assigned to measure/no data

There were nine medical groups that had rates significantly above the statewide average on at least 50 percent of the preventive health measures for which they were eligible. Detailed results by medical group and clinic are available in the online appendix to this report and at <u>mnhealthscores.org</u>.

\*Included if eligible for at least three measures.

Statewide Results

2019 report year (2018 dates of service)



### AT A GLANCE

#### DIABETES MEASURES

On average, out of every 100 adults with diabetes:

- 64 patients receive an eye exam
- 45 patients meet all five criteria to be in control

#### ASTHMA MEASURES

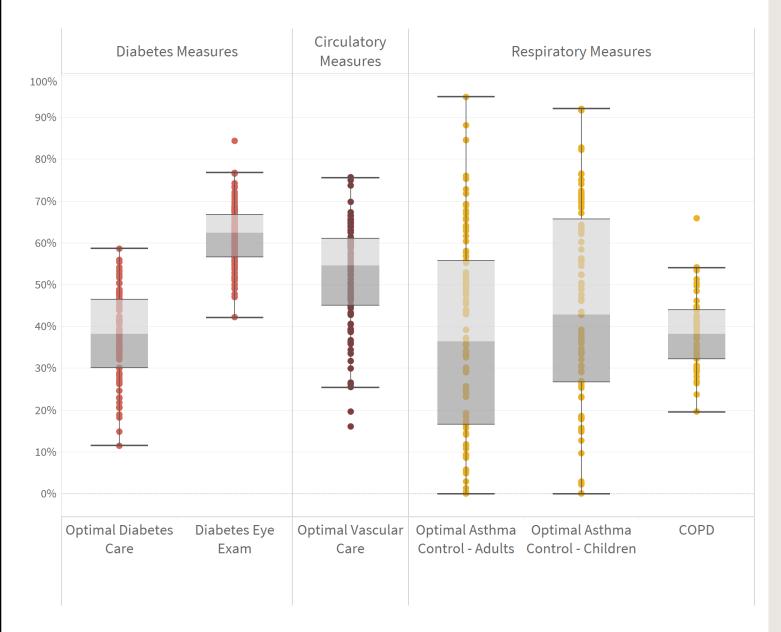
On average, for patients with asthma:

- 53 out of every 100 adults meet all criteria to be in control
- 60 out of every 100 children meet all criteria to be in control

*Measure descriptions available at end of report* 

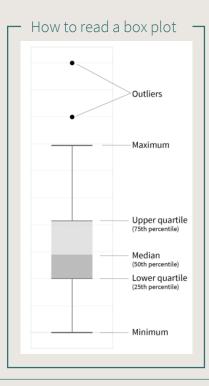
#### Variation by Medical Group

2019 report year (2018 dates of service)



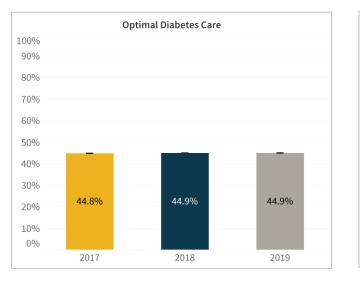
### **AT A GLANCE**

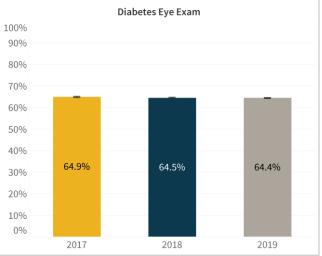
- There continues to be significant variation in medical group performance for all measures of chronic conditions.
- In 2019, the widest range in performance was seen in the Optimal Asthma Control Adult measure.
- The Diabetes Eye Exam saw the most consistent performance among medical groups.

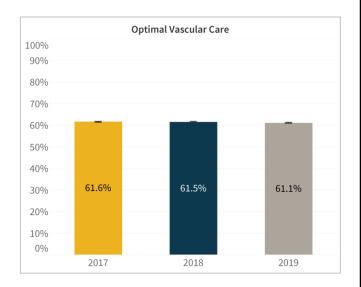


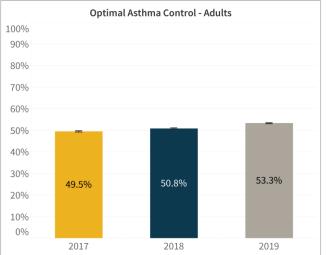
### **Statewide Trend Over Time**

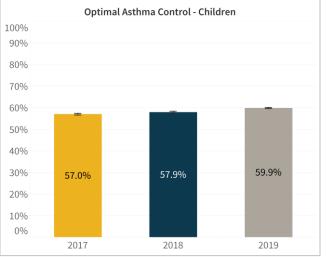
2019 report year (2018 dates of service)

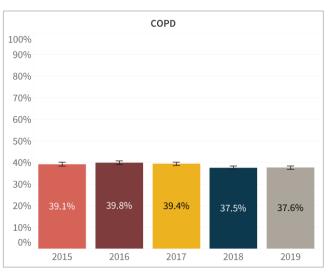












<sup>2015 – 2018</sup> results were adjusted to match 2019 patient population

Out of the six measures of chronic conditions, the Optimal Asthma Control measures for both the adult and child populations experienced statistically significant increases in 2018. Performance rates for the other measures of chronic conditions remained stable.



Highest Performers for Chronic Conditions Measures - Medical Group Level Results

			DIABETES		CIRCULATORY	RESPIRATORY			
MEDICAL GROUP	Total number of measures as high performers	Total number of eligible measures	Optimal Diabetes Care	Diabetes Eye Exam	Optimal Vascular Care	Optimal Asthma Control - Adults	Optimal Asthma Control - Child	COPD	
Affiliated Community Medical	3	6	0	•	0		•	0	
Allina Health	3	6	0	•	0		•	0	
CentraCare Health	4	6	•	•	0		•	0	
Entira Family Clinics	3	6	•	0	•		0	0	
Essentia Health	5	6	•	•	•		•	0	
airview Health Services	5	6	•	0	•		•	•	
HealthEast Clinics	3	6	0	0	•	•	•	0	
HealthPartners Central Minnesota Clinics	3	4	•	-	0		•	-	
HealthPartners Clinics	5	6	•	•	•	•	•	0	
Mankato Clinic	3	6	•	0	0	•	•	0	
Park Nicollet Health Services	6	6	•	•	•	•	•	۲	
Ridgeview Clinics	4	6	•	0	•	٠	•	0	

Average or below average

Not assigned to measure/no data

eports under HealthPartners Clinics for HEDIS measures

There were 12 medical groups with rates significantly above the statewide average on at least 50 percent of the chronic conditions measures for which they were eligible. Detailed results by medical group and clinic are available in the online appendix to this report and at mnhealthscores.org.

\*Included if eligible for at least three measures.

# MENTAL HEALTH SCREENING & DEPRESSION OUTCOME MEASURES

#### **Statewide Results**

#### 2019 report year

	Mental Heal	th Screening	6 Mont	h Adult Dep	ression	12 Mont	th Adult Dep	ression
100%								
90%								
80%								
70%								
60%								
50%								
40%	86.1%	74.3%						
30%								
20%			34.2%			29.8%		
10%		-		12.00/				
0%				13.9%	8.2%		12.3%	7.5%
	Adolescent Mental Health Screening	Adult PHQ-9 Utilization	PHQ-9 Follow-up at 6 Months	6 Month Response	6 Month Remission	PHQ-9 Follow-up at 12 Months	12 Month Response	12 Month Remission

### **AT A GLANCE**

#### MENTAL HEALTH SCREENINGS

- The Adolescent Mental Health Screening measure captures adolescents <u>without</u> a diagnosis of depression who were screened for mental health and/or depression.
- In contrast, the Adult PHQ-9 Utilization measure only includes adults diagnosed with depression who were assessed for depression.

#### ADULT DEPRESSION OUTCOMES

On average, out of every 100 adults with depression:

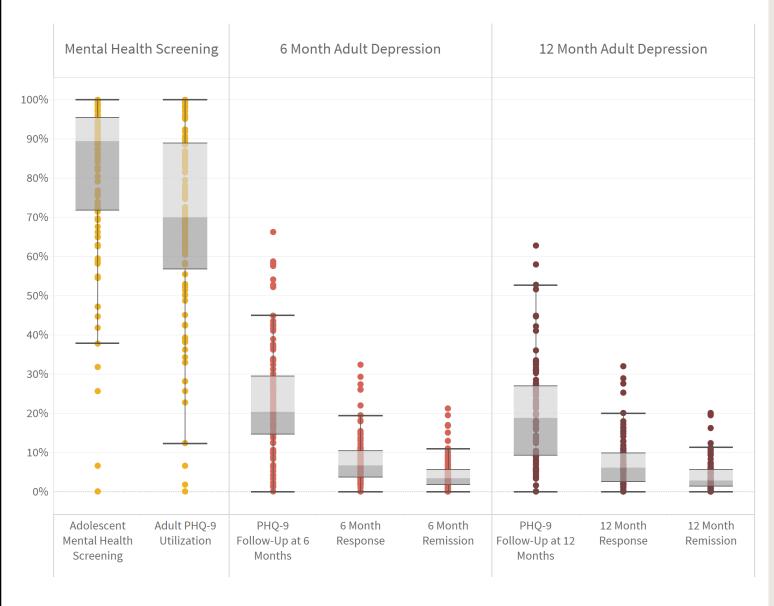
- 34 patients are re-assessed with a PHQ-9 tool after six months
- On average, out of every 34 patients who are re-assessed after six months of treatment:
  - o Approximately 14 have a response to treatment
  - o Approximately 8 are considered in remission

*Measure descriptions available at end of report* 

# **DEPRESSION OUTCOME & SCREENING MEASURES**

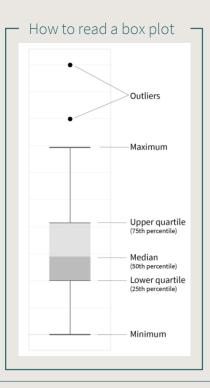
#### Variation by Medical Group

#### 2019 report year



### AT A GLANCE

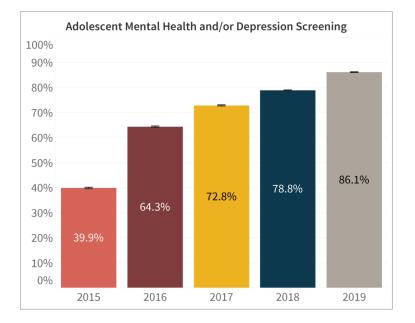
- There continues to be significant variation in medical group performance for all mental health/depression measures.
- In 2019, the widest range in performance was seen in the Adult PHQ-9 Utilization measure.
- Both the 6-month and the 12month remission measures saw the most consistent performance among medical groups.

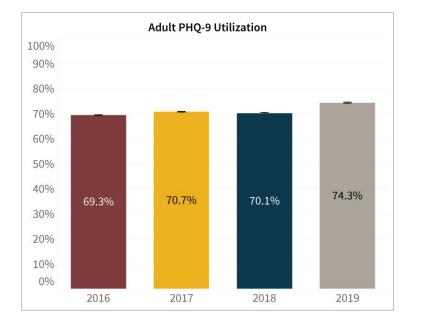


# MENTAL HEALTH/DEPRESSION SCREENING MEASURES

Statewide Trend Over Time

2019 report year



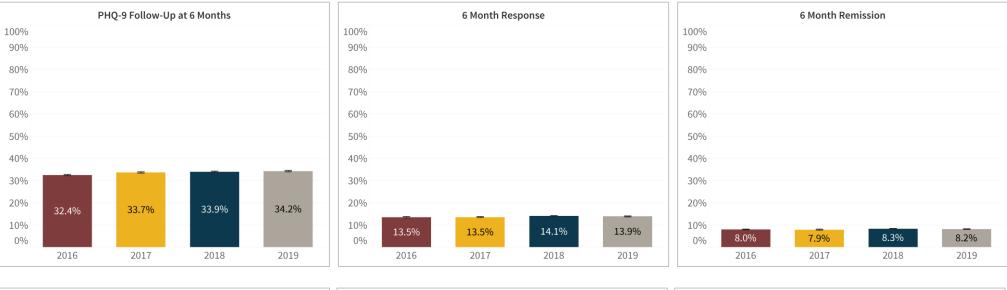


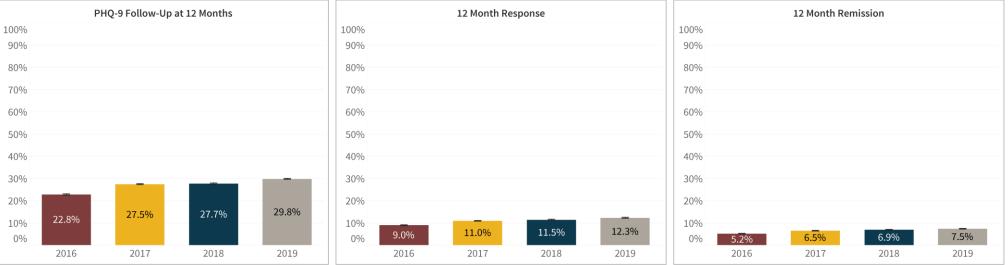
The mental health screening measures had statistically significant increases in performance rates during the 2018 calendar year. The Adolescent Mental Health screening measure increased just over seven percentage points, while the Adult PHQ-9 Utilization measure increased just over four percentage points from the previous year.

# 6- AND 12-MONTH ADULT DEPRESSION MEASURES

#### Statewide Trend Over Time

#### 2019 report year





While there continues to be a large opportunity for improvement in the 6- and 12-month adult depression measures, each of the 12-month measures experienced statistically significant rate increases in the 2019 report year. The 6-month measures remained stable and did not have any statistically significant changes from the 2018 report year.

# MENTAL HEALTH SCREENING & ADULT DEPRESSION MEASURES

Highest Performers for Depression/Mental Health Measures – Medical Group Level Results

			Mental Health Screening		6 Month Adult Depression			12 Month Adult Depression		
MEDICAL GROUP	Total number of measures as high performers	Total number of eligible measures	Adolescent Mental Health Screening	Adult PHQ-9 Utilization	PHQ-9 Follow-up at 6 Months	6 Month Response	6 Month Remission	PHQ-9 Follow-up at 12 Months	12 Month Response	12 Month Remission
Advanced Medical Clinic	1	2	0	•	<	<	<	<	<	<
Amery Hospital and Clinic	1	2	0	•	<	<	<	<	<	<
Boynton Health Service	4	8	0	•		•	0	•	0	0
Entira Family Clinics	7	8	0	•		•	•	•	•	•
Essentia Health	7	8		0		•		•	•	•
Fairview Mesaba Clinics	6	8	0	•		•		•	•	0
HealthPartners Central Minnesota Clinics	7	8	0		•	٠		•	•	•
HealthPartners Clinics	8	8			•	•		•	•	
Lakewood Health System	4	8			0	0	0	0	•	
Mankato Clinic	7	8	•		•	٠	0	•	•	
Park Nicollet Health Services	8	8	•			•		•	•	
Perham Health	5	8	0		•	•		0	•	0
Sanford Health	6	8	0	0	•	•		•	•	
Swift County Benson Health	1	2		0	<	<	<	<	<	<
Westfields Hospital and Clinic	2	2			<	<	<	<	<	<

Above average
Average or below average

< Not reportable for this measure (too few patients in measure denominator)

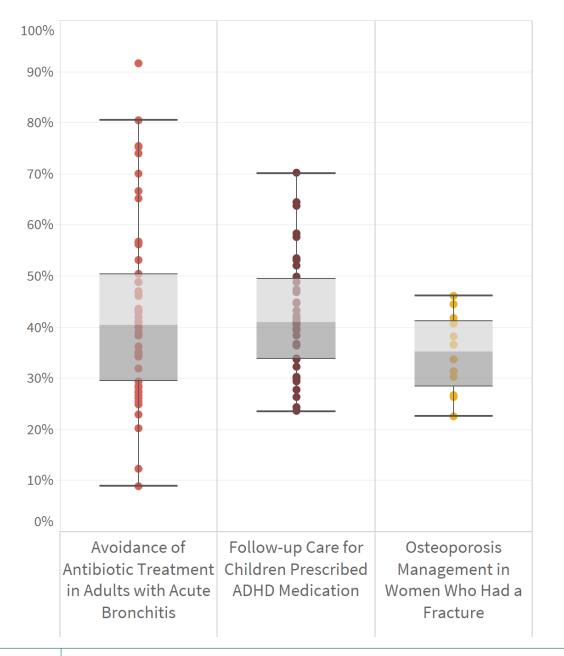
There were 15 medical groups with rates significantly above the statewide average on at least 50 percent of the Depression measures for which they were eligible. Detailed results by medical group and clinic are available in the online appendix to this report and at <u>mnhealthscores.org</u>.

\*Included if eligible for at least three measures.

# **OTHER MEASURES**

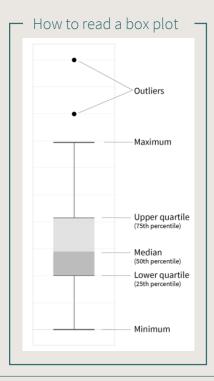
#### Variation by Medical Group

*2019 report year (2018 dates of service)* 



### **MEASURE OVERVIEW**

- Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis: Percentage of adults with a diagnosis of acute bronchitis NOT dispensed an antibiotic prescription
- Follow-up Care for Children Prescribed ADHD Medication: Percentage of children prescribed a new ADHD medication who at least one follow-up visit within 30 days
- Osteoporosis Management in Women Who Had a Fracture: Percentage of women who suffered a fracture and who either had a bone mineral density test or prescription to treat osteoporosis in the six months after fracture

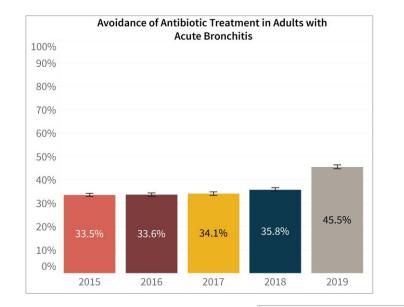


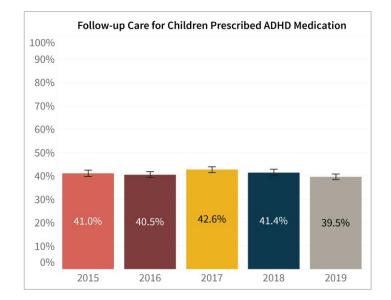
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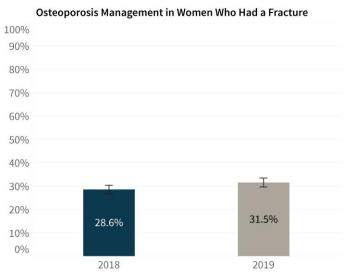
# **OTHER MEASURES**

#### Statewide Trend Over Time

2019 report year (2018 dates of service)







The Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis measure experienced the largest, statistically significant increase in performance rate compared to all other clinical quality measures in this report. This is the first year that the Osteoporosis Management in Women Who Had a Fracture measure has been publicly reported by MNCM. The rate has remained statistically stable since the 2018 report year.

# DEFINITIONS & METHODOLOGY

Measure Definitions

### **CANCER SCREENING MEASURES**

- Breast Cancer Screening: The percentage of women ages 50-74 who received a mammogram during the prior two years (the measurement year or prior year)
- **Cervical Cancer Screening:** The percentage of women ages 21-64 who were screened for cervical cancer during the measurement year using either of two criteria:
  - 1. Women age 21-64 who had a cervical cytology performed every three years; **OR**
  - 2. Women age 30-64 who had cervical cytology/human papillomavirus (HPV) co-testing performed every five years
- **Colorectal Cancer Screening:** The percentage of adults ages 50-75 who are up-to-date with the appropriate screening for colorectal cancer. Appropriate screenings include one of the following:
  - Colonoscopy during the measurement period or the nine years prior; **OR**
  - Flexible sigmoidoscopy during the measurement year or the four years prior; **OR**
  - CT colonography during the measurement year or the four years prior; **OR**
  - Fecal immunochemical test (FIT)-DNA during the measurement year or the two years prior; **OR**
  - Guaiac-based fecal occult blood test (gFOBT) or FIT during the measurement year

### INFECTIOUS DISEASE SCREENING MEASURES

• **Chlamydia Screening:** The percentage of sexually active women ages 16-24 who had at least one test for chlamydia during the measurement year.

## **IMMUNIZATIONS**

- Childhood Immunization Status (Combo 10): The percentage of children two years of age had all of the following vaccines by their second birthday:
  - Four diphtheria, tetanus and acellular pertussis (DTaP)
  - Three polio (IPV)
  - One measles, mumps and rubella (MMR)
  - Three haemophilus influenza type B (HiB)
  - Three hepatitis B (HepB)
  - One chicken pox (VZV)
  - Four pneumococcal conjugate (PCV)
  - One hepatitis A (HepA)
  - Two or three rotavirus (RV)
  - Two influenza (flu)
- Immunizations for Adolescents (Combo 2): The percentage of adolescents 13 years of age who had:
  - One dose of meningococcal conjugate vaccine
  - One tetanus, diphtheria toxoids and acellular pertussis (Tdap) vaccine
  - Completed the human papillomavirus (HPV) vaccine by their 13<sup>th</sup> birthday

# **CHRONIC DISEASE MEASURES**

Measure Definitions

## **DIABETES MEASURES**

- **Optimal Diabetes Care:** The percentage of patients 18-75 years of age who had a diagnosis of type 1 or type 2 diabetes and whose diabetes was optimally managed during the measurement period as defined by achieving all of the following:
  - HbA1c less than 8.0 mg/dL
  - Blood pressure less than 140/90 mm Hg
  - On a statin medication, unless allowed contraindications or exceptions are present
  - Non-tobacco user
  - Patient with ischemic vascular disease on daily aspirin or anti-platelets, unless allowed contraindications or exceptions are present
- **Diabetes Eye Exams:** The percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had a retinal eye exam.

# **CIRCULATORY MEASURE**

- **Optimal Vascular Care:** The percentage of patients 18-75 years of age who had a diagnosis of ischemic vascular disease (IVD) and whose IVD was optimally managed during the measurement period as defined by achieving all of the following:
  - Blood pressure less than 140/90 mm Hg
  - On a statin medication, unless allowed contraindications or exceptions are present
  - Non-tobacco user
  - On daily aspirin or anti-platelets, unless allowed contraindications or exceptions are present

# **RESPIRATORY MEASURES**

- Optimal Asthma Care Adults: The percentage of adults 18-50 years of age who had a diagnosis of asthma and whose asthma was optimally controlled during the measurement period as defined by achieving both of the following:
  - Asthma well-controlled as defined by the most recent asthma control tool result available during the measurement period
  - Patient not at elevated risk of exacerbation as defined by less than two emergency department visits and/or hospitalizations due to asthma in the last 12 months
- Optimal Asthma Care Children: The percentage of children 5-17 years of age who had a diagnosis of asthma and whose asthma was optimally controlled during the measurement period as defined by achieving both of the following:
  - Asthma well-controlled as defined by the most recent asthma control tool result available during the measurement period
  - Patient not at elevated risk of exacerbation as defined by less than two emergency department visits and/or hospitalizations due to asthma in the last 12 months
- Use of Spirometry Testing in the Assessment and Diagnosis of COPD: The percentage of adults 40 years of age and older with a new diagnosis of COPD or newly active COPD, who received appropriate spirometry testing to confirm diagnosis

# **DEPRESSION MEASURES**

Measure Definitions

### **MENTAL HEALTH SCREENING**

- Adolescent Mental Health and/or Depression Screening: The percentage of patients ages 12-17 who were screened for mental health and/or depression at a well-child visit using a specified tool. *Note: Adolescents diagnosed with depression are excluded from this measure.*
- **PHQ-9 Utilization:** The percentage of patients with a diagnosis of Major Depression or Dysthymia who also have a completed PHQ-9 tool during the measurement period.

### **6 MONTH MEASURES**

- **PHQ-9 Follow-up at 6 Months:** The percentage of patients with depression who have a completed PHQ-9 tool within six months after the index event (+/- 30 days)
- 6 Month Response: The percentage of patients with depression who demonstrated a response to treatment (at least 50 percent improvement) six months after the index event (+/- 30 days)
- **6 Month Remission:** The percentage of patients with depression who reached remission (PHQ-9 score less than five) six months after the index event (+/- 30 days)

### **12 MONTH MEASURES**

- PHQ-9 Follow-up at 12 Months: The percentage of patients with depression who have a completed PHQ-9 tool within 12 months after the index event (+/- 30 days)
- 12 Month Response: The percentage of patients with depression who demonstrated a response to treatment (at least 50 percent improvement) 12 months after the index event (+/- 30 days)
- **12 Month Remission:** The percentage of patients with depression who reached remission (PHQ-9 score less than five) 12 months after the index event (+/- 30 days)

# **OTHER MEASURES**

Measure Definitions

- Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis: The percentage of adults 18-64 years of age with a diagnosis of acute bronchitis who were not dispensed an antibiotic prescription
- Follow-up Care for Children Prescribed ADHD Medication: The percentage of children ages 6-12 prescribed a new attention-deficit/hyperactivity disorder (ADHD) medication who had a least one follow-up visit within 30 days of when the ADHD medication was dispensed.
- Osteoporosis Management in Women Who Had a Fracture: The percentage of women 67-85 years of age who suffered a fracture and who had either a bone mineral density (BMD) test or prescription for a drug to treat osteoporosis in the six months after the fracture.

# DEFINITIONS

- **Composite Measures:** A measure of two or more component measures, each of which individual reflects quality of care, combined into a single performance measure with a single score. The individual components are treated equally (not weighted). Every component must meet criteria to be counted in the numerator for the overall composite measure.
- **Outcome Measures:** These measures reflect the actual results of care. They are generally the most relevant measures for patients and the measures that providers most want to change.
- **Patient-Reported Outcome Measures (PROM):** A validated survey instrument or tool used to collect information directly from a patient.
- Patient-Reported Outcome Performance Measure (PRO-PM): The measure built from a PROM.
- **Process Measures:** A measure that shows whether steps proven to benefit patients are being used. They measure whether an action was completed (e.g., having a medical exam or test, writing a prescription or administering a drug).

# QUALITY MEASURES BY MEASURE TYPE

QUALITY MEASURE	Process	Outcome	PRO-PM	HEDIS	HEDIS Hybrid
Adolescent Mental Health and/or Depression	✓				
Screening	•				
Avoidance of Antibiotic Treatment in Adults	$\checkmark$			$\checkmark$	
with Acute Bronchitis	** 			5000 	
Breast Cancer Screening	$\checkmark$			$\checkmark$	
Cervical Cancer Screening	$\checkmark$			$\checkmark$	$\checkmark$
Childhood Immunization Status (Combo 10)	$\checkmark$			$\checkmark$	$\checkmark$
Chlamydia Screening in Women	$\checkmark$			$\checkmark$	
Colorectal Cancer Screening	$\checkmark$				
Depression Remission at 12 Months		~	$\checkmark$		
Depression Remission at 6 Months		✓	$\checkmark$		
Depression Response at 12 Months		✓	✓		
Depression Response at 6 Months		✓	✓		
Depression: Adult PHQ-9 Utilization	$\checkmark$				
Depression: PHQ-9 Follow-Up at 12 Months	$\checkmark$				
Depression:PHQ-9 Follow-Up at 6 Months	$\checkmark$				
Diabetes Eye Exam	$\checkmark$				
Follow-Up Care for Children Prescribed ADHD Medication	$\checkmark$				
Immunizations for Adolescents (Combo 2)	$\checkmark$				✓
Optimal Asthma Control - Adults		$\checkmark$	$\checkmark$		
Optimal Asthma Control - Children		$\checkmark$	$\checkmark$		
Optimal Diabetes Care		$\checkmark$			
Optimal Vascular Care		~			
Osteoporosis Management in Women Who Had a Fracture	$\checkmark$			$\checkmark$	
Use of Spirometry Testing in the Assessment					
and Diagnosis of COPD	$\checkmark$			$\checkmark$	
TOTALS	15	8	6	7	3

### PATIENT-REPORTED OUTCOME (PRO) TOOLS USED

#### OPTIMAL ASTHMA CONTROL

- Asthma Control Test (ACT)
- Childhood Asthma Control Test (C-ACT)
- Asthma Control Questionnaire (ACQ)
- Asthma Therapy Assessment Questionnaire

#### ADULT DEPRESSION

• Patient Health Questionnaire (PHQ-9)

PRO-PM: Patient-reported Outcome Performance Measure

# **METHODS**

The measures in this report are collected from two separate data sources: clinics and health plans. Direct Data Submission (DDS) measures use data from clinics. This data enables reporting of results by clinic location as well as by medical group. In contrast, the Healthcare Effectiveness Data and Information Set (HEDIS) measures use data from health plans. This data enables reporting of results by medical group only.

The table on the next slide shows the number of patients included in each measure and the data source. HEDIS measures include patients enrolled in commercial health insurance products, Medicare managed care or Medicaid managed care programs. Patients who are uninsured, or those served by a Medicaid/Medicare fee-for-service program are not included. The number of patients eligible for these measures is further narrowed by criteria specifying a minimum amount of time a member/patient must be continuously enrolled in a health plan to be eligible for the measure.

In contrast, DDS measures rely on data from clinics across Minnesota to identify the number of patients eligible for the measure. All eligible clinic patients are reflected regardless of insurance coverage type and duration. As a result, DDS measures have a larger number of eligible patients for the measures.

# NUMBER OF PATIENTS INCLUDED IN QUALITY MEASURES

	QUALITY MEASURE	Data Source	Age Range	Number of Patients Eligible for Measure*	Number of Patients in Measure Denominator	
	Breast Cancer Screening	Health Plan	50-74	339,249	339,249	
LTH	Cervical Cancer Screening**	Health Plan	21-64	519,769	12,050	
HEA	Colorectal Cancer Screening	DDS	50-75	1,241,678	1,236,138	
TIVE	Chlamydia Screening in Women	Health Plan	16-24	102,462	102,462	
PREVENTIVE HEALTH	Childhood Immunization Status (Combo 10)**	Health Plan	Age 2 and under	31,668	5,364	
₽.	Immunizations for Adolescents (Combo 2)**	Health Plan	By age 13	34,187	5,071	
٩S	Optimal Diabetes Care	DDS	18-75	313,857	313,454	
CHRONIC CONDITIONS	Diabetes Eye Exam	Health Plan	18-75	165,842	165,842	
IDNO	Optimal Vascular Care	DDS	18-75	185,840	185,840	
C C C	Optimal Asthma Control - Adults	DDS	18-50	139,039	138,621	
INO	Optimal Asthma Control - Children	DDS	5-17	72,763	72,365	
CHR	Use of Spirometry Testing in the Assessment and Diagnosis of COPD	Health Plan	40+	13,114	13,114	
	Adolescent Mental Health and/or Depression Screening	DDS	12-17	154,205	154,034	
	Adult PHQ-9 Utilization	DDS	18+	219,645	219,645	
NC	Adult Depression: PHQ-9 Follow-Up at 6 Months	DDS	18+	111,585	111,585	
DEPRESSION	Adult Depression: 6 Month Response	DDS	18+	111,585	111,585	
EPRE	Adult Depression: 6 Month Remission	DDS	18+	111,585	111,585	
D	Adult Depression: PHQ-9 Follow-Up at 12 Months	DDS	18+	111,585	111,585	
	Adult Depression: 12 Month Response	DDS	18+	111,585	111,585	
	Adult Depression: 12 Month Remission	DDS	18+	111,585	111,585	
ĉ	Avoidance of Antibiotic Treatment in Adults with Acute Bronchitis	Health Plan	18-64	15,333	15,333	
OTHER	Follow-Up Care for Children Prescribed ADHD Medication	Health Plan	6-12	6,054	6,054	
	Osteoporosis Management in Women Who Had a Fracture	Health Plan	67-85	2,153	2,153	

#### **DATA SOURCES**

The measures in this report are collected from two separate data sources: clinics and health plans.

- Direct Data Submission (DDS) measures use data from clinics, which enables reporting by clinic location and medical group.
- HEDIS measures use data from health plans, which enables reporting of results by medical group only.

#### **TABLE OVERVIEW**

This table shows the number of patients included in each measure.

#### **HEDIS MEASURES**

- Includes patients enrolled in commercial health insurance products, Medicare managed care or Medicaid managed care programs.
- Does NOT include patients who are uninsured or those served by a Medicaid/Medicare fee-for-service program, patients who do not meet continuous enrollment criteria for measure

#### DDS MEASURES

- Rely on data from clinics across Minnesota to identify eligible patients
- All eligible clinic patients are reflected, regardless of insurance coverage type and duration

# **DIRECT DATA SUBMISSION (DDS)**

DDS measures use data submitted directly to MNCM by medical groups and clinics.

#### **Data Collection**

Data are reported at two levels: by clinic site and medical group.

Clinic abstractors collect data from medical records either by extracting the data from an electronic medical record (EMR) via data query or from abstraction of paper-based medical records. All appropriate Health Insurance Portability and Accountability (HIPAA) requirements are followed for data transfer to MNCM.

MNCM staff conduct an extensive validation process including pre-submission data certification, post submission data quality checks of all files, and audits of the data source for selected clinics. For medical record audits, MNCM uses NCQA's "8 and 30" File Sampling Procedure, developed in 1996 in consultation with Johns Hopkins University. For a detailed description of this procedure, see www.ncqa.org. Audits are conducted by trained MNCM auditors who are independent of medical groups and/or clinics. The validation process ensures the data are reliable, complete and consistent.

#### **Eligible Population Specifications**

The eligible population for each measure is identified by a medical group on behalf of their individual clinics. MNCM's 2019 DDS Data Collection Guides provide technical specifications for the standard definitions of the eligible population, including elements such as age.

#### **Numerator Specifications**

For DDS measures, the numerator is the number of patients identified from the eligible population who meet the numerator criteria. The numerator is calculated using the clinical quality data submitted by the medical group; this data is verified through MNCM's validation process.

#### **Calculating Rates**

Due to the dynamic nature of patient populations, rates and 95 percent confidence intervals are calculated for each measure for each medical group/clinic regardless of whether the full population or a sample is submitted. The statewide average rate is displayed when comparing a single medical group/clinic to the performance of all medical groups/clinics to provide context. The statewide average is calculated using all data submitted to MNCM which may include some data from clinics located in neighboring states.

# DIRECT DATA SUBMISSION (DDS) CON'T

#### **Risk Adjustment**

Risk adjustment is a technique used to enable fair comparisons of clinics/medical groups by adjusting for the differences in risk among specific patient groups. MNCM uses an "Actual to Expected" methodology for risk adjustment. This methodology does not alter a clinic/medical group's result; the actual rate remains unchanged. Instead, each clinic/medical group's rate is compared to an "expected rate" for that clinic/medical group based on the specific characteristics of patients seen by the clinic/medical group, compared to the total patient population.

All expected values for DDS measures are calculated using a logistic regression model including the following variables: health insurance product type (commercial, Medicare, Medicaid, uninsured, unknown), patient age, and deprivation index. The deprivation index was added in 2018 and includes ZIP code level average of poverty, public assistance, unemployment, single female with child(ren), and food stamps (SNAP) converted to a single index that is a proxy for overall socioeconomic status.

A population proportions test is used to determine whether there is a statistically significant difference between the expected and actual rates of optimally managed patients attributed to each clinic/medical group. The methodology uses a 95 percent test of significance.

The tables for the risk-adjusted measures include the following information:

- Medical group/clinic name
- Performance
  - "Above Average" = Clinic or medical group's actual rate is significantly above its expected rate
  - "Expected" = Clinic or medical group's actual rate is equivalent to its expected rate
  - "Below Average" = Clinic or medical group's actual rate is significantly below its expected rate
- Patients = Number of patients at a medical group/clinic site that meet the denominator criteria for the measure.
- Actual Rate = Actual percentage of patients meeting criteria (unadjusted rate).
- Expected Rate = Expected percentage of patients meeting criteria based on the clinic's/medical group's mix of patient risk (adjusted rate).
- Actual to Expected Ratio = Actual percentage of patients meeting criteria divided by the expected percentage of patients meeting criteria for the clinic's/medical group's mix of patient risk.

#### **Thresholds for Public Reporting**

MNCM has established minimum thresholds for public reporting of DDS measures to ensure statistically reliable rates. Only medical groups and clinics that meet the threshold of 30 patients in the denominator of each measure are publicly reported.

# HEALTH CARE EFFECTIVENESS AND INFORMATION SET (HEDIS)

HEDIS is a national set of performance measures used in the managed care industry that were developed and maintained by the National Committee for Quality Assurance (NCQA). Clinic HEDIS measures use data from the administrative or hybrid data collection methodology.

#### **Data Collection**

- <u>Administrative Method:</u> These HEDIS measures use health plan claims data to identify the patients who are eligible for the measure (denominator) and for the numerator.
- <u>Hybrid Method:</u> These HEDIS measures use health plan claims data to identify the patients who are eligible for the measures. Numerator information comes from health plan claims and medical record review data. Because medical record review data is costly and time-consuming to collect, health plans select a random sample from the eligible patients to identify the measure denominator. For the immunization measures, health plans also use data from the Minnesota Immunization Information Connection (MIIC).
- <u>Continuous enrollment criteria</u>: The minimum amount of time for a member/patient to be enrolled in a health plan to be eligible for a HEDIS measure. It ensure the health plan has enough time to render services. If a member/patient does not meet minimum continuous enrollment criteria, they are not eligible to be included in the measure denominator.

#### **Eligible Population Specifications**

The eligible populations for the administrative and hybrid measures are identified by each participating health plan using its respective administrative claims database. Health plans assign patients to a medical group using a standard medical group definition based on a tax identification number (TIN). Administrative billing codes determine the frequency of a patient's visit to a medical group. For most measures, patients are assigned to the medical group they visited most frequently during the measurement period. Patients who visited two or more medical groups with the same frequency are attributed to the medical group visited most recently in the measurement period. The TIN is used as the common identifier for aggregating data across health plans.

# HEALTH CARE EFFECTIVENESS AND INFORMATION SET (HEDIS)

#### **Numerator Specifications**

For HEDIS administrative measures, the numerator is the number of patients from the eligible population who met the numerator criteria. For HEDIS hybrid measures, the numerator is the number of patients from the sample who met numerator criteria.

#### **Calculating Rates**

HEDIS administrative and hybrid measures are reported at a medical group level and are expressed as percentages. Rates calculated for hybrid measures require weighting because of the sampling procedures applied. Rates and 95-percent asymmetrical confidence intervals are calculated for each measure for each medical group. (Asymmetrical confidence intervals are used to avoid confidence interval lower bound values less than zero and upper bound values greater than one hundred.). The medical group overall average is used to compare to the individual medical group's rate for the performance ratings. The statewide average includes attributed and unattributed patients.

HEDIS measures are not risk adjusted, therefore do not have Actual to Expected Ratios. Columns for Lower and Upper 95% Confidence Intervals are included. HEDIS measures are rated on the following scale:

- Above = Clinic or medical group's actual rate is significantly above the medical group average
- Average = Clinic or medical group's actual rate is equivalent to the medical group average
- Below = Clinic or medical group's actual rate is significantly below the medical group average

#### **Thresholds for Public Reporting**

MNCM has established minimum thresholds for HEDIS public reporting to ensure statistically reliable rates. Only medical groups that meet the thresholds of 30 patients in the denominator of HEDIS administrative measures and 60 patients in the denominator of HEDIS hybrid measures are publicly reported.

#### Limitations

Data used to calculate rates for the HEDIS measures reflect patients insured through 10 health plans doing business in Minnesota. Patients who are uninsured, self-pay, or who are served by Medicaid/Medicare fee-for-service are not reflected in the HEDIS results.

# **APPENDIX**

# **Online Appendix Tables**

- **2** Preventive Health Measures by Medical Group
- **20** Chronic Conditions Measures by Medical Group
- **40** Mental Health Screening & Depression Outcome Measures by Medical Group
- 72 Other Measures by Medical Group
- 77 Preventive Health Measures by Clinic
- **97** Chronic Conditions Measures by Clinic
- **160** Mental Health Screening & Depression Outcome Measures by Clinic