

2010

HEALTH CARE DISPARITIES REPORT

for Minnesota Health Care Programs



Comparing Medical Group and Clinic Performance for Public and Private Purchasers Using Health Plan and Clinic Site Data



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Minnesota Department of **Human Services**

2010 Health Care Disparities Report for Minnesota Health Care Programs

(For care delivered in 2009)

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Health Care Disparities Report

for Minnesota Health Care Programs

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Executive Summary

The 2010 Health Care Disparities Report for Minnesota Health Care Programs presents health care performance rates for patients enrolled in the managed care component of Minnesota Health Care Programs (MHCP). These programs, which are funded by the state and federal governments and administered by health plans, include Medical Assistance, MinnesotaCare and General Assistance Medical Care. The report also explores the differences in performance rates between patients enrolled in MHCP and patients enrolled with Other Purchasers (private, employer-based health care insurance or Medicare programs) at a statewide, medical group, and for the first time in this report, two measures - Optimal Diabetes Care and Optimal Vascular Care – at a clinic level.

Compared with the overall population in Minnesota, patients enrolled in MHCP represent a population with lower socioeconomic status, as well as a disproportionate share of persons of color, American Indians, persons with disabilities, and elders. In addition to lower socioeconomic status, these patients often experience significant personal challenges that create barriers to receiving appropriate health care. In many cases, the

structure of the health care system prevents them from receiving appropriate care. As a result, MHCP patients may not receive care that meets best practices as often as patients enrolled with Other Purchasers.

The Minnesota Department of Human Services (DHS) selected the 12 measures in this report based on their relevance to patients enrolled in MHCP:

- Optimal Diabetes Care
- Optimal Vascular Care
- Depression Remission at Six Months
- Controlling High Blood Pressure
- Use of Appropriate Medications for People with Asthma
- Appropriate Treatment for Children with Upper Respiratory Infection
- Appropriate Testing for Children with Pharyngitis
- Breast Cancer Screening
- Cervical Cancer Screening
- Colorectal Cancer Screening
- Chlamydia Screening in Women
- Childhood Immunization Status (Combo 3)

Key Findings

- Seven of seven statewide measures that can be compared to previous years have improved since last year and over multiple years for MHCP patients (See Table 1).
- This year, nine of the 12 statewide performance rates for MHCP patients were significantly lower than for patients enrolled with Other Purchasers. Two measures – Appropriate Treatment for Children with Upper Respiratory Infection and Childhood Immunization Status – showed no significant difference between purchasers; one measure – Chlamydia Screening – showed a significantly higher performance rate for MHCP patients than for patients enrolled with Other Purchasers. (See Table 2)
- The largest gaps between MHCP and Other Purchasers occurred for the Colorectal Cancer Screening measure (a 21 percentage point difference) and the Breast Cancer Screening measure (a 13 percentage point difference). These measures also had the largest gaps last year, but the differences narrowed this year.

Executive Summary

- Statewide gaps in performance rates between MHCP and Other Purchasers have narrowed for five measures over time:
 - o Appropriate Testing for Children with Pharyngitis (over 5 years)
 - o Breast Cancer Screening (over 7 years)
 - o Cervical Cancer Screening (over 7 years)
 - o Chlamydia Screening in Women (over 2 years)
 - o Childhood Immunization Status - Combo 3 (over 5 years)
- Statewide gaps in performance rates between MHCP and Other Purchasers have widened for one measure over time:
 - o Controlling High Blood Pressure (over 4 years)
- For some measures, we were unable to make comparisons to previous years because measure specifications changed to align with emerging evidence-based guidelines.
- For eight measures, some medical groups and clinics had performance rate gaps between purchasers of less than 1 percentage point, indicating little or no difference between purchasers. These measures include: Optimal Diabetes Care, Controlling High Blood Pressure, Use of Appropriate Medications for People with Asthma, Appropriate Treatment for Children with Upper Respiratory Infection, Appropriate Testing for Children with Pharyngitis, Cervical Cancer Screening, Chlamydia Screening, and Childhood Immunization Status.
- The four measures that assess outcomes (Optimal Diabetes Care, Optimal Vascular Care, Depression Remission at Six Months, and Controlling High Blood Pressure), on average show a greater gap between purchaser populations than the remaining measures that evaluate processes. It is likely that outcomes measures are less amenable to change compared to process measures.
- Differences exist between racial and ethnic groups within the MHCP patient population for the nine Health Effectiveness Data Information Set (HEDIS) measures. It was not possible to report the Optimal Diabetes Care, Optimal Vascular Care, and Depression Remission at Six Months measures by race and ethnicity because these data elements are not yet submitted by all clinics.
 - o Controlling High Blood Pressure – More white patients have their blood pressure under control and it is the only racial group that has significantly higher rates of controlling high blood pressure than the MHCP statewide rate. The Black/African American racial group has a performance rate significantly below the statewide MHCP rate. The Black/African American group had a significantly lower rate compared to the White racial group, but a similar rate compared to the other groups.
 - o Use of Appropriate Medications for People with Asthma – The Multi-racial group has the highest rate of people using appropriate medications for asthma. The American Indian/Alaskan Native group has the lowest rate.
 - o Appropriate Treatment for Children with Upper Respiratory Infection – Black/African American patients had the highest rate of receiving appropriate treatment for children with URI and it is the only racial group that had a significantly higher rate than the statewide MHCP rate. White patients had the lowest rate compared to the other known racial groups and were the only racial group with a performance rate significantly below the MHCP rate.
 - o Appropriate Testing for Children with Pharyngitis - African American patients had the highest rate of receiving appropriate testing for children with pharyngitis; Asian patients had the lowest rate.

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Executive Summary

- Breast Cancer Screening – White patients had a significantly higher rate of breast cancer screening than all other racial groups; the American Indian/Alaskan Native racial group had a significantly lower rate than all other racial groups and was the only racial group that had a breast cancer screening rate significantly below the statewide MHCP rate.
- Cervical Cancer Screening – Black/African American and Multi-racial patients had the highest rates of cervical cancer screening; Black/African Americans are the only group of patients with a performance rate significantly above the statewide MHCP rate. American Indian and Asian patients had the lowest rates of cervical cancer screening and were the only racial groups with rates significantly lower than the statewide MHCP rate.
- Colorectal Cancer Screening – White patients had the highest rate of colorectal cancer screening; Asian patients had the lowest rate and it is the only racial group with a rate that is significantly lower than the MHCP rate.
- Chlamydia Screening in Women - Black/African American patients had the highest rate of chlamydia screening and this racial group, along with Multi-racial patients had performance rates significantly above the statewide MHCP rate. The Asian and White patients had the lowest rates and were the only racial groups significantly lower than the statewide MHCP rate.
- Childhood Immunization Status (Combo 3) – Of the known racial groups, White patients had the highest childhood immunization rate; Asian patients had the lowest rate, and this group along with American Indian/Alaskan Native patients were the only groups with childhood immunization rates significantly lower than the statewide MHCP rate.
- Differences exist between Hispanic and Non-Hispanic patients within the MHCP patient population for the nine HEDIS measures.
 - For two measures - Cervical Cancer Screening and Childhood Immunization Status - Hispanic patients had significantly higher rates than the MHCP statewide rate. For both measures, Hispanic patients had a significantly higher rate than Non-Hispanic patients.
 - Hispanic patients had higher performance rates compared to Non-Hispanic patients for seven measures - Controlling High Blood Pressure, Use of Appropriate Medications for People with Asthma, Breast Cancer Screening, Cervical Cancer Screening, Colorectal Cancer Screening, Chlamydia Screening, and Childhood Immunization Status (Combo 3).
 - Non-Hispanic patients had a higher performance rate compared to Hispanic patients for Appropriate Treatment for Children with URI and Appropriate Testing for Children with Pharyngitis.

The Minnesota Department of Human Services and MN Community Measurement are committed to continuing our partnership to publicly report this information. Public reporting can stimulate improvements particularly when health care performance rates are reported at a medical group or clinic level where more accountability lies and actions to address disparities are possible. To make improvements, medical groups and clinics must thoroughly examine their performance data, continually seek to understand the unique needs of their patients, and implement targeted interventions to meet those needs.

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Introduction

The *2010 Health Care Disparities Report* for Minnesota Health Care Programs (reporting on health care delivered in 2009) is the fourth such report produced by MN Community Measurement (MNCM) in collaboration with the Minnesota Department of Human Services to report health care performance rates for patients enrolled in Minnesota Health Care Programs (MHCP). In addition, differences in health care performance rates between patients enrolled in these state/federal funded public programs and those enrolled with Other Purchasers (private, employer-based health care insurance or Medicare programs) are presented at a statewide, medical group and, for some measures, a clinic level. Clinics are defined as any location where primary care or specialty care ambulatory services are provided by one or more physicians. Medical groups are defined as one or more clinic sites operated by a single organization, made up of many providers, at multiple clinics and/or multiple locations. MHCP includes Medical Assistance, MinnesotaCare and General Assistance Medical Care. These state funded programs are administered by health plans and therefore do not include Medicaid Fee-For-Service patients. The patients enrolled in MHCP constitute a population with lower socioeconomic status, as well as a disproportionate share of persons of color, American Indians, persons with disabilities, and elders, compared with the overall population in Minnesota.

The first Health Care Disparities Report (published in 2007 and reporting on care delivered in 2006), was a “first in the nation” effort that highlighted differences (both statewide and at a medical group level) in health care performance rates between MHCP patients and patients enrolled with Other Purchasers. The report heightened awareness and made transparent that performance rates for patients enrolled with MHCP differ from rates for patients enrolled with Other Purchasers, even within the same medical group.

This 2010 Health Care Disparities Report represents the fourth release of this report. It now includes 12 measures selected by DHS based on their relevance to patients enrolled in MHCP. Most of the performance measures in this report were developed by the National Committee for Quality Assurance (NCQA) and are known as Health Effectiveness Data Information Set (HEDIS) measures. HEDIS is a national set of standardized performance measures originally designed for the managed care industry and adapted by MNCM. MNCM aggregates data from participating health plans and publicly reports HEDIS performance rates at a medical group level.

We categorize measures based on health care emphasis. Some measures assess how well providers care for patients with chronic conditions and are referred to as “Living with Illness” measures. Another category includes measures that reflect how well providers care for patients with common acute illnesses and are referred to as “Getting Better” measures. A third category includes measures that reflect how well providers keep individuals healthy or identify disease at an early stage, when it can be treated most effectively. These measures are referred to as “Staying Healthy” measures.

HEDIS data originate from health plan claims databases and are supplemented by medical record review if measures require clinical data. Measures that are entirely derived from claims data are referred to as administrative measures. Medical groups are publicly reported for administrative measures if at least 30 patients meet measure criteria. HEDIS measures that require clinical data are referred to as hybrid measures because the health plans first use claims data to identify eligible patients and then use chart review to obtain clinical data on a random sample of patients. Sampling requires weighting to represent the eligibles in the population. Medical groups are publicly reported for hybrid measures using a higher threshold: at least 60 patients must meet the measure specifications. For more information on methods, see Appendix 2.

For the first time, we include three performance measures developed by Minnesota Community Measurement – Optimal Diabetes Care, Optimal Vascular Care, and Depression Remission at Six Months. Data for these measures originate directly from medical groups and are referred to as Direct Data Submission (DDS) measures. DDS results are subject to a rigorous validation process by MNCM. DDS performance rates are reported at a clinic level if at least 30 patients meet measure specifications. All performance measures included in this report have been endorsed by the National Quality Forum (NQF) and are aligned with clinical guidelines established by Minnesota’s Institute for Clinical Systems Improvement (ICSI).

Introduction

In addition, we report MHCP performance rates by race and ethnicity at the statewide level using patient-reported data collected from the Minnesota Department of Human Services at the time individuals enroll in Minnesota Health Care Programs. Results show that there are differences in performance rates between MHCP patients of different race and ethnicities.

We have found that the public reporting of health care performance rates spurs quality improvement particularly when rates are reported at a medical group or clinic level where more accountability lies and actions to address disparities are possible. Several medical groups and clinics have shown it is possible to achieve optimal health outcomes for patients regardless of insurance program. Further advances will call for medical groups and clinics to thoroughly examine their data and learn from medical groups that have achieved higher performance rates for patients enrolled in state funded public programs. Improvement will also call for an understanding of the unique needs of these patients and implementation of best practices to meet those needs.

Results at a Glance

MHCP Statewide Rate Comparisons to Previous Years

Table 1 displays the MHCP statewide results for report year 2010 and compares these results to previous years. The measures with the highest MHCP rates were Use of Appropriate Medications for People with Asthma (88.6 percent) and Appropriate Treatment for Children with URI (87.9 percent). The measure with the lowest MHCP rate was Depression Remission at Six Months (3.1 percent).

Three of the twelve statewide measures showed statistically significant improvements from report year 2009. Controlling High Blood Pressure and Appropriate Testing for Children with Pharyngitis had the largest gains (3 percentage points). Most of the measures showed a slight but not significant gain. Three measures – Optimal Diabetes Care, Appropriate Medication for People with Asthma, and Colorectal Cancer Screening – could not be compared to previous years because measure specifications changed in 2010.

Measures that have been reported for seven years continued to show large improvements over that time period. Cervical Cancer Screening had the largest gain (31 percentage points) followed by Breast Cancer Screening (29 percentage points). Childhood Immunization Status has been reported for five years and also improved by a large gain (26 percentage points). The changes in Controlling High Blood Pressure, Appropriate Testing for Children with Pharyngitis, Breast Cancer Screening, Cervical Cancer Screening, and Childhood Immunization Status measures were statistically significant. It continues to be important to monitor performance on these measures to ensure that long-term improvement is maintained.

Table 1: Summary of MHCP Statewide Rates for 2010 Report Year Compared with Previous Years*

Quality Measure	2010 MHCP Statewide Average	MHCP Percentage Point Change Statewide (Report Year 2010-2009)	MHCP Percentage Point Change Over Time (Report Year 2010-First Year Reported)
"Living with Illness" measures			
Optimal Diabetes Care*	10.6%	N/A	N/A
Optimal Vascular Care*	20.6%	N/A	N/A
Depression Remission at Six Months*	3.1%	N/A	N/A
Controlling High Blood Pressure*	66.9%	3.3** ↑	5.6** ↑ (4 Years)
Use of Appropriate Medications for People with Asthma (Ages 5-50)	88.6%	N/A	N/A
"Getting Better" measures			
Appropriate Treatment for Children with URI	87.9%	0.8** ↑	2.7 ↑ (5 years)
Appropriate Testing for Children with Pharyngitis	83.7%	3.0** ↑	12.1 ** ↑ (5 years)
"Staying Healthy" measures			
Breast Cancer Screening (Mammograms)	62.5%	0.6 ↑	29.0** ↑ (7 Years)
Cervical Cancer Screening (Pap test)	71.5%	0.5 ↑	30.8** ↑ (7 Years)
Colorectal Cancer Screening *	46.5%	N/A	N/A
Chlamydia Screening in Women (Ages 16-24)	56.6%	0.5 ↑	0.5 ↑ (2 years)
Childhood Immunization Status (Combo 3) *	75.4%	0.7 ↑	26.2** ↑ (5 Years)

* These statewide averages are calculated from weighted samples (see methods). ** Statistically significant difference ($p < 0.05$)
N/A= Not applicable. The measurement specifications changed so comparisons cannot be made to previous years.

Results at a Glance

Summary of Statewide Rate Gaps

Table 2 displays data at the statewide level showing differences in the achievement of health care best practices for patients enrolled in MHCP versus patients enrolled with Other Purchasers. We calculated rate gaps by subtracting the MHCP rate from the Other Purchasers rate. In the table, a positive difference means that the Other Purchasers rate was higher than the MHCP rate, and a negative difference means that the MHCP rate was higher than the Other Purchasers rate.

For nine of the twelve measures, the statewide rate for Other Purchasers was higher than the statewide rate for MHCP. This means that physicians successfully achieved health care best practices when treating patients of Other Purchasers more often than they did in treating MHCP patients. Colorectal Cancer Screening had the widest gap between MHCP and Other Purchaser patients (21 percentage points), followed by Optimal Vascular Care (14 percentage points) and Breast Cancer Screening (13 percentage points). Chlamydia Screening has the fourth widest gap (10 percentage points), but the MHCP rate was higher than the rate for Other Purchasers.

For five of the twelve measures, the statewide gap (Other Purchasers - MHCP) has narrowed over time and the narrowing was statistically significant for Appropriate Testing for Children with Pharyngitis, Breast Cancer Screening, and Cervical Cancer Screening. For one measure—Controlling High Blood Pressure—the statewide gap (Other Purchasers - MHCP) widened over time but it was not statistically significant.

Table 2: Summary of Statewide Rate Gaps

Quality Measure	2010 MHCP Statewide Average	2010 Other Purchasers Statewide Average	Rate Difference (2010) (Other purchasers - MHCP)	Rate Difference (Current Year vs. First Year) Over time (Other Purchasers-MHCP)
"Living with Illness" measures				
Optimal Diabetes Care*	10.6%	18.7%	8.1%**	N/A
Optimal Vascular Care*	20.6%	34.9%	14.3%**	N/A
Depression Remission at Six Months*	3.1%	6.5%	3.4%**	N/A
Controlling High Blood Pressure*	66.9%	72.6%	5.7%**	Gap Widened (2007-2010)
Use of Appropriate Medications for People with Asthma (Ages 5-50)	88.6%	93.1%	4.5%**	N/A
"Getting Better" measures				
Appropriate Treatment for Children with URI	87.9%	87.4%	-0.5%	Unchanged Gap [^] (2006-2010)
Appropriate Testing for Children with Pharyngitis	83.7%	90.7%	7.0%**	Gap Narrowed** (2006-2010)
"Staying Healthy" measures				
Breast Cancer Screening	62.5%	75.7%	13.2%**	Gap Narrowed** (2004-2010)
Cervical Cancer Screening	71.5%	77.9%	6.4%**	Gap Narrowed ** (2004-2010)
Colorectal Cancer Screening *	46.5%	67.8%	21.3%**	N/A
Chlamydia Screening in Women (Ages 16-24)	56.6%	46.5%	-10.1%**	Gap Narrowed (2009-2010)
Childhood Immunization Status (Combo 3) *	75.4%	76.6%	1.2%	Gap Narrowed (2006-2010)

* These statewide averages are weighted samples (see methods). ** Statistically significant difference (p<0.05)

[^] For Report Year 2006, the MHCP Statewide Average was lower than the Other Purchasers Statewide Average by 0.5%. For 2010 Report Year, the gap value remains the same, however, the MHCP Statewide Average is higher than the Other Purchasers Statewide Average by 0.5%.

N/A= Not applicable. The measurement specifications changed so comparisons cannot be made to previous years.

Results at a Glance

Analysis of Medical Group and Clinic Level Purchaser Rate Gaps

For each measure, we conducted statistical analyses to assess whether gaps between purchasers were present within a medical group, and whether purchaser rate gaps at the medical group level were bigger or smaller than the statewide purchaser rate gap. A detailed table of clinic level - Optimal Diabetes Care and Optimal Vascular Care - and medical group purchaser rate gaps and a summary of findings for each measure can be found in Appendix 5.

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Results by Measure

2010 Report (2009 Dates of Service)

This section presents rates for each of the twelve measures selected by DHS for this report. Each measure is briefly described and then statewide results by purchaser are displayed, including trending results for MHCP and Other Purchasers. Next, we provide medical group performance highlights for MHCP patients including a list of medical groups who have high performance and those medical groups with the biggest improvements. For the Optimal Diabetes Care and Optimal Vascular Care measures, clinic level performance highlights are also included. We also provide medical group performance over time and an analysis of medical group purchaser rate gaps.

Detailed data is presented in three appendices:

- Appendix 3: Clinic Level and Medical Group Performance Rate Tables
- Appendix 4: Medical Group Performance Over Time (3-years)
- Appendix 5: Purchaser Performance Rate Differences

“Living with Illness” measures

Optimal Diabetes Care

This measures the percentage of patients with diabetes (Type I and Type II) ages 18- 75 who reached all of the following five treatment goals to reduce cardiovascular risk:

- Blood pressure less than 130/80 mmHg
- LDL-C less than 100 mg/dl
- Hemoglobin A1c less than 8
- Documented tobacco-free status
- Daily aspirin use (ages 41-75) unless contraindicated

Medical groups and clinics report data directly to MNMCM for this measure based on electronic health records or paper-based medical charts (See Glossary).

MHCP patients had a significantly lower Optimal Diabetes Care rate than patients enrolled with Other Purchasers ($p < 0.05$). The statewide MHCP rate for Optimal Diabetes Care was 11 percent and the rate for Other Purchasers was 19 percent. This means that statewide, only 11 percent of patients enrolled in MHCP reached all five treatment goals while 19 percent of patients enrolled with Other Purchasers did so. Table 3.1 displays these statewide rates.

Table 3.1: Statewide Weighted Rates* for Optimal Diabetes Care

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	10.6%	10.1% - 11.0%	15,726
Other Purchasers	18.7%	18.4% - 19.0%	74,969

*The statewide weighted rate includes all patients eligible for the measures who were reported directly to MNMCM by medical groups and clinics from electronic health records or paper-based medical charts.

Figure 3.1: Optimal Diabetes Care Statewide Rates over Time

The measurement specifications and data source changed since last year so a comparison over time is not possible.

Figure 3.2: Optimal Diabetes Care: Statewide Gaps between Purchasers by Year

The measurement specifications and data source changed since last year so a comparison over time is not possible.

Clinic Level Performance Highlights

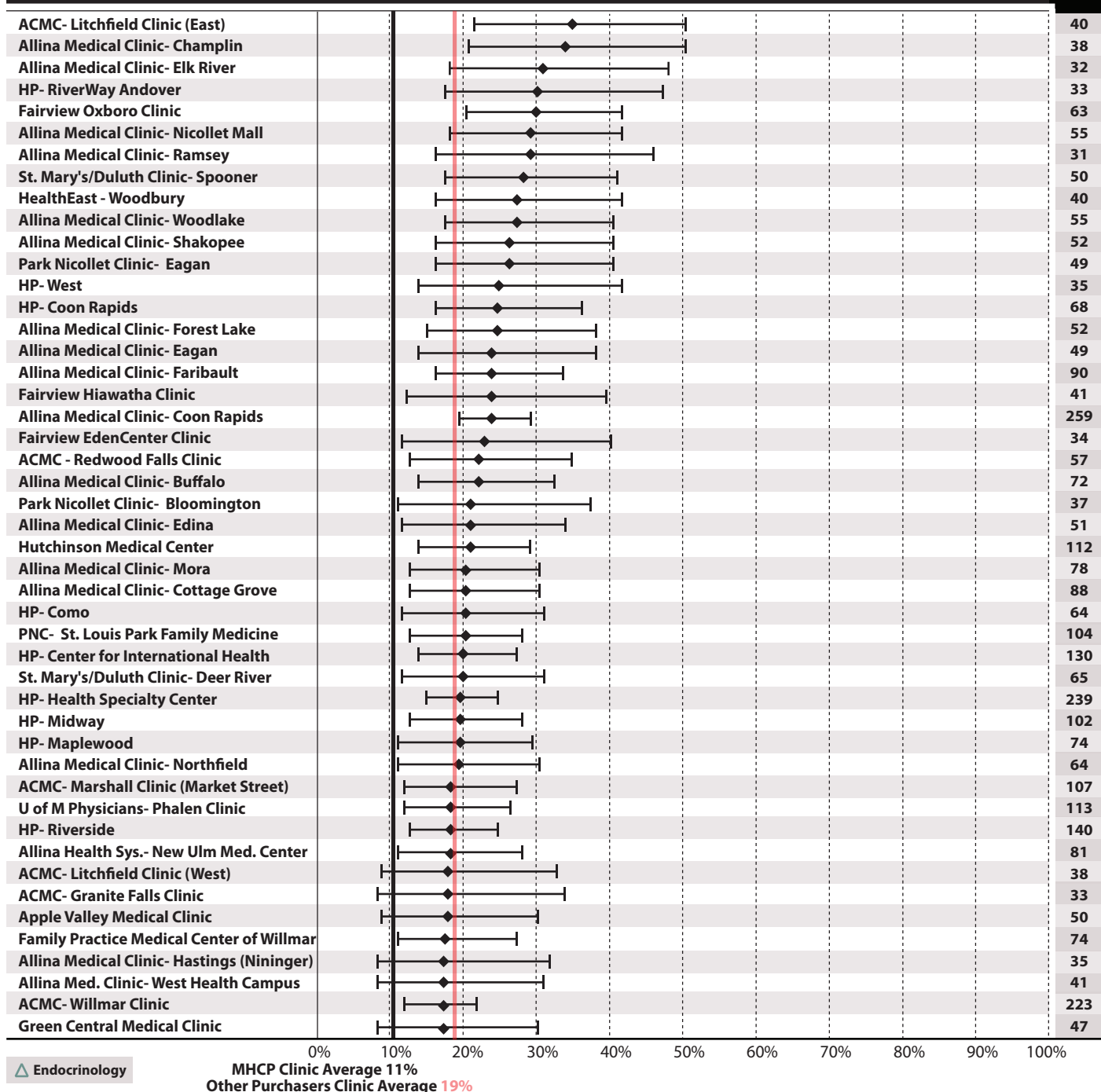
Chart 3.1 provides the MHCP Optimal Diabetes Care rate by clinic from highest to lowest. It also includes the average clinic rates for MHCP and Other Purchasers. For the 2010 report year, 141 clinics are reportable for this measure because they had at least 30 patients that met the measurement specifications-- enough patients to ensure a reasonable level of confidence in the reported rate. These 141 clinics account for 12,068 of the 15,726 MHCP patients (77 percent) who were eligible for this measure statewide. The 141 reportable clinics account for 31 percent of clinics providing care to MHCP patients in Minnesota and surrounding areas who submitted data to MNMCM for this measure.

There was wide variation in the degree to which clinics were successful in achieving health care best practices with their patients enrolled in MHCP. The most successful clinic, **Affiliated Community Medical Centers - Litchfield Clinic (East)**, achieved these best practices with 35 percent of their MHCP patients, while **Lake Superior Community Health Center-Duluth**, **Open Cities Health Center - Northend**, and **Paynesville Watkins Medical Clinic** were unable to achieve all five best practice elements with any of their MHCP patients. Performance variation is not unique to MHCP and provides evidence that there is room for improvement. A detailed table of clinic level rates can be found in Appendix 3.

Chart 3.1: Optimal Diabetes Care Rates by Clinic

(Minnesota Health Care Programs with 30+ patients in denominator)

n*



ACMC - Affiliated Community Medical Centers
 FHSM - Family HealthServices Minnesota
 HFA - Hennepin Faculty Associates
 HP - HealthPartners
 NMC - North Memorial Clinic
 PNC - Park Nicollet Clinic
 SMDC - St. Mary's Duluth Clinic

Chart 3.1: Optimal Diabetes Care Rates by Clinic

(Minnesota Health Care Programs with 30+ patients in denominator)

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ACMC - Affiliated Community Medical Centers
 FHSM - Family HealthServices Minnesota
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Chart 3.1: Optimal Diabetes Care Rates by Clinic

(Minnesota Health Care Programs with 30+ patients in denominator)



ACMC - Affiliated Community Medical Centers
 FHSM - Family HealthServices Minnesota
 HFA - Hennepin Faculty Associates
 HP - HealthPartners
 NMC - North Memorial Clinic
 PNC - Park Nicollet Clinic
 SMDC - St. Mary's Duluth Clinic

Performance Highlights - Clinic Level Results

Clinics with Above Average MHCP Rates in Report Year 2010

Affiliated Community Medical Centers - Litchfield Clinic (East) had the highest rate of **Optimal Diabetes Care** for their MHCP patients, at 35 percent. Forty-two clinics had rates and confidence intervals that were fully above the clinic average of 11 percent for patients enrolled in MHCP. These clinics are listed below in order from high to low performance.

- Affiliated Community Medical Centers - Litchfield Clinic (East)
- Allina Medical Clinic - Champlin
- Allina Medical Clinic - Elk River
- HealthPartners - RiverWay Andover
- Fairview Oxboro Clinic
- Allina Medical Clinic - Nicollet Mall
- Allina Medical Clinic - Ramsey
- St. Mary's/Duluth Clinic - Spooner
- HealthEast - Woodbury
- Allina Medical Clinic - Woodlake
- Allina Medical Clinic - Shakopee
- Park Nicollet Clinic - Eagan
- HealthPartners - West
- HealthPartners - Coon Rapids
- Allina Medical Clinic - Forest Lake
- Allina Medical Clinic - Eagan
- Allina Medical Clinic - Faribault
- Fairview Hiawatha Clinic
- Allina Medical Clinic - Coon Rapids
- Fairview EdenCenter Clinic
- Affiliated Community Medical Centers - Redwood Falls Clinic
- Allina Medical Clinic - Buffalo
- Park Nicollet Clinic - Bloomington
- Allina Medical Clinic - Edina
- Hutchinson Medical Center
- Allina Medical Clinic - Mora
- Allina Medical Clinic - Cottage Grove
- HealthPartners - Como
- Park Nicollet Clinic - St. Louis Park Family Medicine
- HealthPartners - Center for International Health
- St. Mary's/Duluth Clinic - Deer River
- HealthPartners - Health Specialty Center
- HealthPartners - Midway
- HealthPartners - Maplewood
- Allina Medical Clinic - Northfield
- Affiliated Community Medical Centers - Marshall Clinic (Market Street)
- University of Minnesota Physicians - Phalen Clinic
- HealthPartners - Riverside
- Allina Health System - New Ulm Medical Center
- Family Practice Medical Center of Willmar
- Affiliated Community Medical Centers - Willmar Clinic
- University of Minnesota Physicians - Smiley's Clinic

Biggest Improvement from 2009-2010

Not applicable because this is the first year of reporting this measure for MHCP patients at a clinic level.

Clinic Level Performance Over Time (2008-2010)

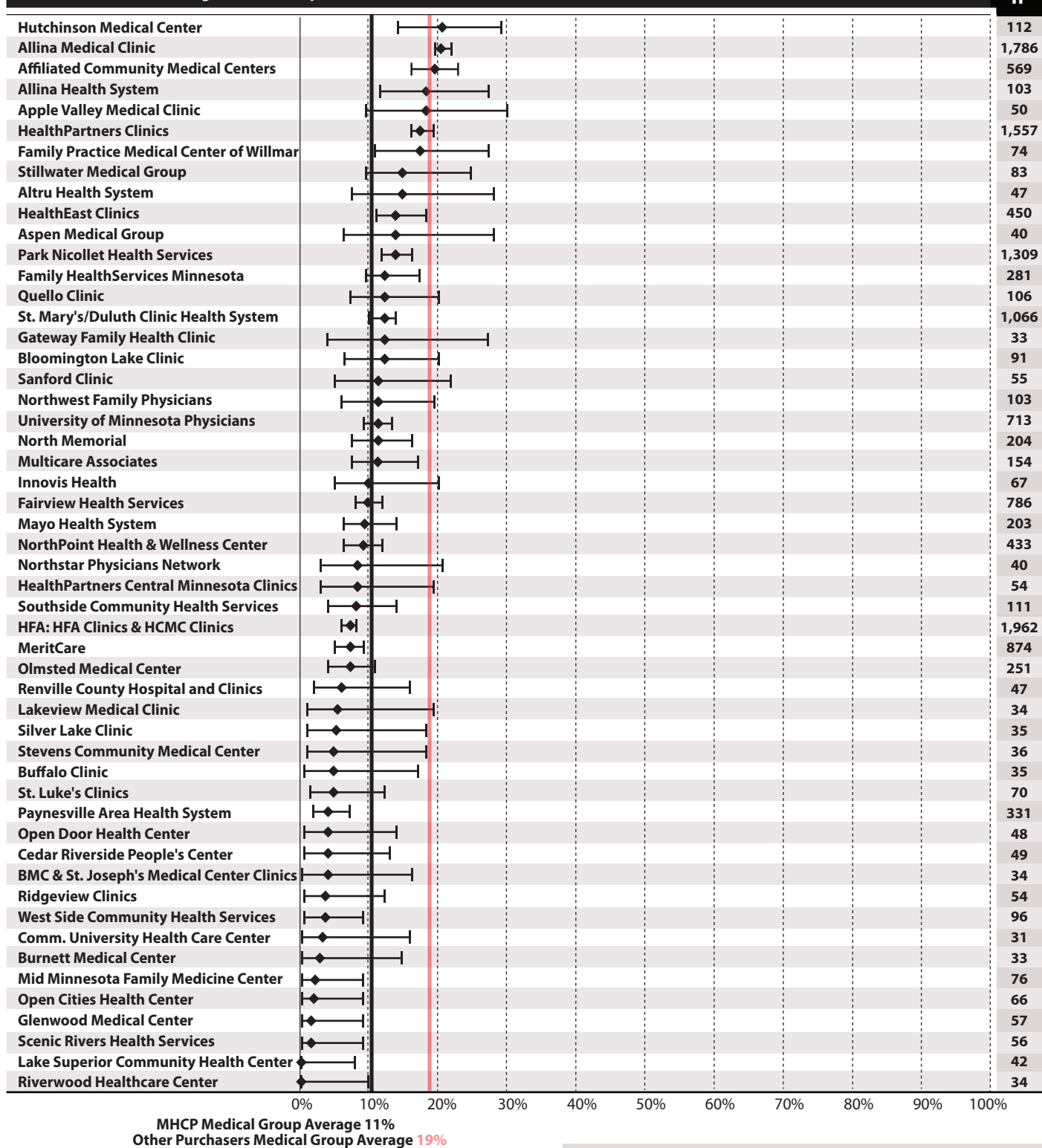
Not applicable because this is the first year of reporting this measure for MHCP patients at a clinic level.

Medical Group Performance Highlights

Chart 3.2 provides the MHCP Optimal Diabetes Care rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 52 medical groups are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 52 medical groups account for 15,031 of the 15,726 MHCP patients (96 percent) who were eligible for this measure statewide. The 52 reportable medical groups account for 48 percent of medical groups providing care to MCHP patients in Minnesota and surrounding areas who submitted data to MNMCM for this measure.

There was wide variation in the degree to which medical groups were successful in achieving health care best practices with their patients enrolled in MHCP. The most successful medical group, **Hutchinson Medical Center**, achieved these best practices with 21 percent of their MHCP patients, while **Lake Superior Community Health Center-Duluth**, and **Riverwood Healthcare Center** were unable to achieve all five best practice elements with any of their MHCP patients. Performance variation is not unique to MHCP and provides evidence that there is room for improvement. A detailed table of medical group rates can be found in Appendix 3.

Chart 3.2: Optimal Diabetes Care Rates by Medical Group
 (Minnesota Health Care Programs with 30+ patients in denominator)



HFA - Hennepin Faculty Associates

Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Hutchinson Medical Center had the highest rate of **Optimal Diabetes Care** with their MHCP patients, at 21 percent. Eight medical groups had rates and confidence intervals that were fully above the medical group average of 11 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Hutchinson Medical Center
- Allina Medical Clinic
- Affiliated Community Medical Centers
- Allina Health System
- HealthPartners Clinics
- Family Practice Medical Center of Willmar
- HealthEast Clinics
- Park Nicollet Health Services

Biggest Improvement from 2009-2010

Not applicable due to changes in the measurement specifications and data source.

Medical Group Performance Over Time (2008-2010)

Not applicable due to changes in the measurement specifications and data source.

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“Living with Illness” measures

Optimal Vascular Care

This measures the percentage of patients ages 18-75 with a diagnosis of vascular disease and who have reached all of the following four treatment goals to reduce the risk of cardiovascular disease:

- Blood pressure less than 130/80 mmHg
- LDL-C less than 100 mg/dl
- Documented tobacco-free status
- Daily aspirin use unless contraindicated

Medical groups and clinics report data directly to MNMCM for this measure based on electronic health records or paper-based medical charts (See Glossary).

MHCP patients had a significantly lower Optimal Vascular Care rate than patients enrolled with Other Purchasers ($p < 0.05$). The statewide MHCP rate for Optimal Vascular Care was 21 percent and the rate for Other Purchasers was 35 percent. This means that, statewide, only 21 percent of patients enrolled in MHCP reached all four treatment goals while 35 percent of patients enrolled with Other Purchasers did so. Table 4.1 displays these statewide rates.

Table 4.1: Statewide Weighted Rates* for Optimal Vascular Care

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	20.6%	19.4% - 21.9%	4,034
Other Purchasers	34.9%	34.4% - 35.5%	30,280

*The statewide weighted rate includes all patients eligible for the measures who were reported directly to MNMCM by medical groups and clinics from electronic health records or paper-based medical charts.

Figure 4.1: Optimal Vascular Care Statewide Rates over Time

This is the first year of data collection and reporting for this measure.

Figure 4.2: Optimal Vascular Care: Statewide Gaps between Purchasers by Year

This is the first year of data collection and reporting for this measure.

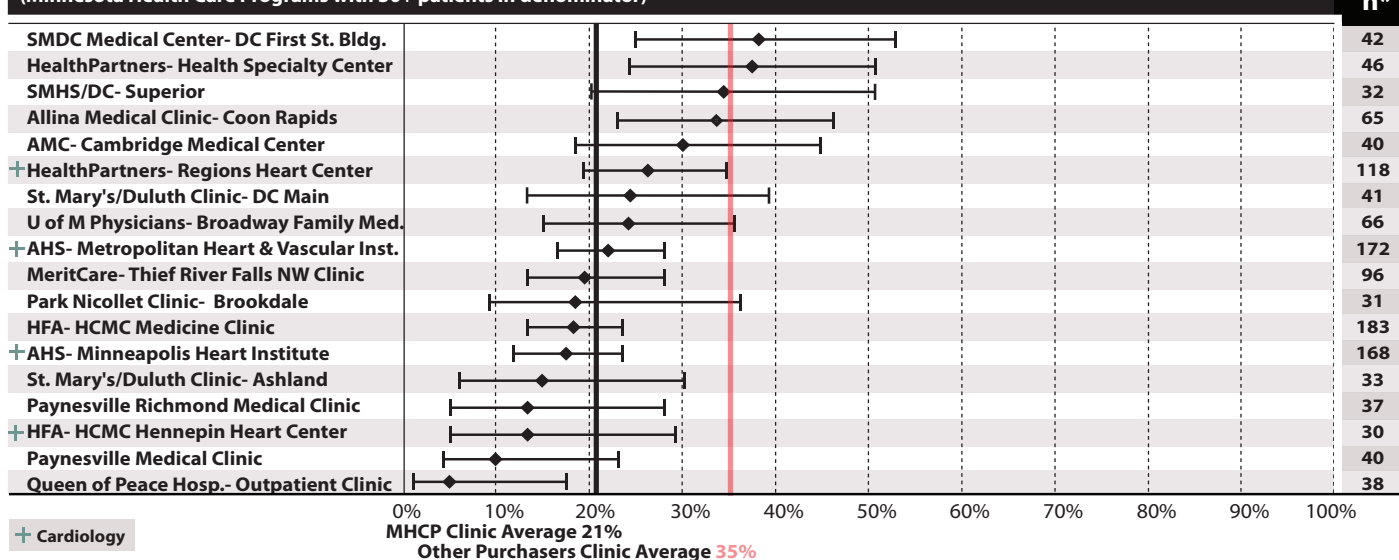
Clinic Level Performance Highlights

Chart 4.1 provides the MHCP Optimal Vascular Care rate by clinic from highest to lowest. It also includes the average clinic rates for MHCP and Other Purchasers. For the 2010 report year, 18 clinics are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 18 clinics account for 1,278 of the 4,034 MHCP patients (32 percent) who were eligible for this measure statewide. The 18 reportable clinics account for 5 percent of clinics providing care to MHCP patients in Minnesota and surrounding areas who submitted data to MNMCM for this measure.

There was wide variation in the degree to which clinics were successful in achieving health care best practices with their patients enrolled in MHCP. The most successful clinic, **St. Mary's/Duluth Clinic Medical Center-DC First St. Building**, achieved these best practices with 38 percent of their MHCP patients, while **Queen of Peace Hospital-Outpatient Clinic**, the least successful, achieved it with only 5 percent. A detailed table of clinic level rates can be found in Appendix 3.

Chart 4.1: Optimal Vascular Care Rates by Clinic

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Clinic Level Results

Clinics with Above Average MHCP Rates in Report Year 2010

St. Mary's/Duluth Clinic Medical Center-DC First St. Building had the highest rate of **Optimal Vascular Care** with their MHCP patients, at 38 percent. Three clinics had rates and confidence intervals that were fully above the clinic average of 21 percent for patients enrolled in MHCP. These clinics are listed below in order of high to low performance.

- St. Mary's/Duluth Clinic Medical Center- DC First St. Building
- HealthPartners- Health Specialty Center
- Allina Medical Clinic- Coon Rapids

Biggest Improvement from 2009-2010

Not applicable because this is the first year of reporting this measure for MHCP patients at a clinic level.

Clinic Level Performance Over Time (2008-2010)

Not applicable because this is the first year of reporting this measure for MHCP patients at a clinic level.

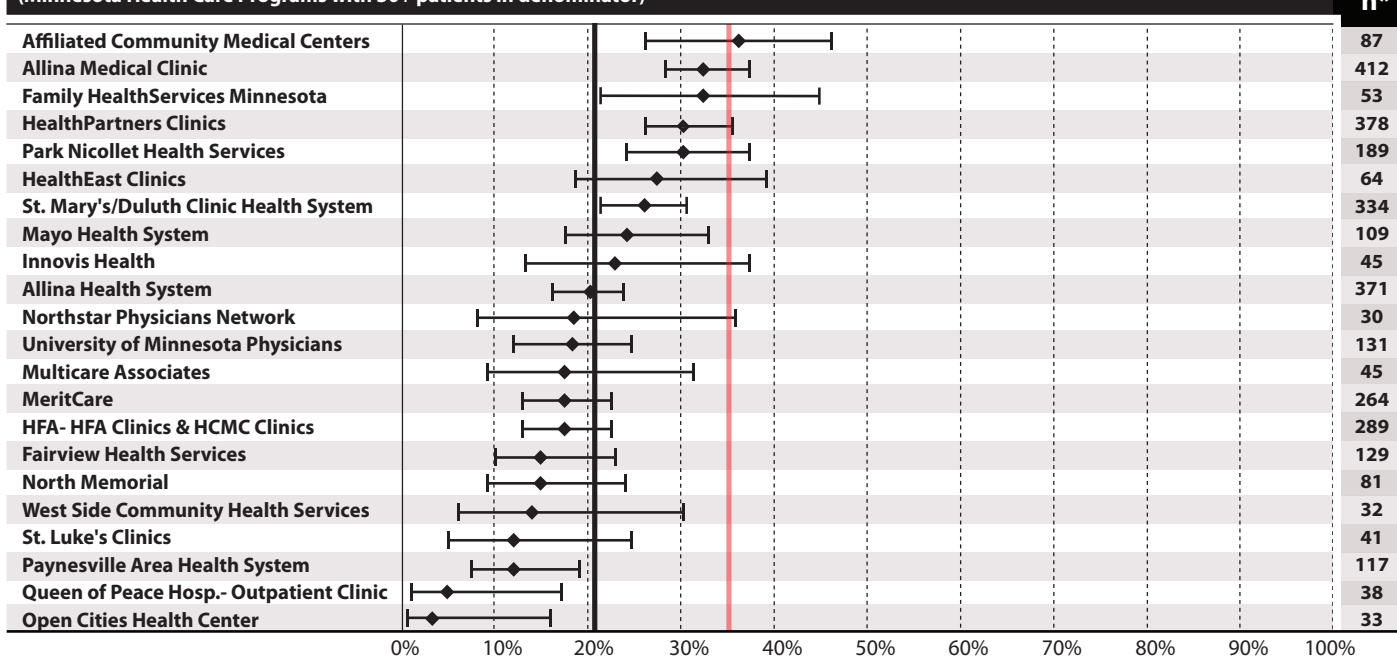
Medical Group Performance Highlights

Chart 4.2 provides the MHCP Optimal Vascular Care rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 22 medical groups are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 22 medical groups account for 3,272 of the 4,034 MHCP patients (81 percent) who were eligible for this measure statewide. The 22 reportable medical groups account for 23 percent of medical groups providing care to MHCP patients in Minnesota and surrounding areas who submitted data to MNMCM for this measure.

There was wide variation in the degree to which medical groups were successful in achieving health care best practices with their patients enrolled in MHCP. The most successful medical group, **Affiliated Community Medical Centers**, achieved these best practices with 36 percent of their MHCP patients, while **Open Cities Health Center**, the least successful, achieved it with only 4 percent. A detailed table of medical group rates can be found in Appendix 3.

Chart 4.2: Optimal Vascular Care Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)



HFA - Hennepin Faculty Associates

MHCP Medical Group Average 21%

Other Purchasers Medical Group Average 35%

— 95% Lower Confidence Level/Upper Confidence Level n* = Sample Size

Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Affiliated Community Medical Centers had the highest rate of **Optimal Vascular Care** with their MHCP patients, at 36 percent. Six medical groups had rates and confidence intervals that were fully above the medical group average of 21 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Affiliated Community Medical Centers
- Allina Medical Clinic
- Family HealthServices Minnesota
- HealthPartners Clinics
- Park Nicollet Health Services
- St. Mary's/Duluth Clinic Health System

Biggest Improvement from 2009-2010

Not applicable because this is the first year of data collection and reporting for this measure at a medical group level.

Medical Group Level Performance Over Time (2008-2010)

Not applicable because this is the first year of data collection and reporting for this measure at a medical group level.

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“Living with Illness” measures

Depression Remission at Six Months

This measures the percentage of patients with major depression or dysthymia and an initial PHQ-9 score greater than nine whose six month PHQ-9 score was less than five. This is the definition of remission.

Medical groups and clinics report data directly to MNMCM for this measure based on electronic health records or paper-based medical charts (See Glossary).

MHCP patients had a significantly lower Depression Remission at Six Months rate than patients enrolled with Other Purchasers ($p < 0.05$). The statewide MHCP rate for Depression Remission at Six Months was 3 percent and the rate for Other Purchasers was 7 percent. This means that, statewide, only 3 percent of patients enrolled in MHCP were being appropriately managed for depression while 7 percent of patients enrolled with Other Purchasers were appropriately managed. Table 5.1 displays these statewide rates. Because this was the first year of data collection and reporting for this measure, clinic and medical group level rates are not reported due to insufficient data and identification of payer type.

Table 5.1: Statewide Weighted Rates* for Depression Remission at Six Months

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	3.1%	2.6% - 3.7%	3,777
Other Purchasers	6.5%	6.0% - 6.9%	12,654

*The statewide weighted rate includes all patients eligible for the measures who were reported directly to MNMCM by medical groups and clinics from electronic health records or paper-based medical charts.

Figure 5.1: Depression Remission at Six Months Statewide Rates over Time

This is the first year of data collection and reporting for this measure.

Figure 5.2: Depression Remission at Six Months: Statewide Gaps between Purchasers by Year

This is the first year of data collection and reporting for this measure.

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“Living with Illness” measures

Controlling High Blood Pressure

This measures the percentage of patients between ages 18-85 with a diagnosis of hypertension, also known as high blood pressure, whose blood pressure was adequately controlled at less than 140/90 mmHg during the measurement year. The representative blood pressure, as defined by the National Committee for Quality Assurance (NCQA), is the most recent blood pressure reading during the measurement year (as long as the reading occurred after the diagnosis of hypertension was made). Data collected for this measure are from health plan claims and medical record review (See Glossary).

The health care best practice of Controlling High Blood Pressure was achieved with MHCP patients at a significantly lower rate than with patients enrolled with Other Purchasers ($p < 0.05$). The statewide rate for Controlling High Blood Pressure for MHCP patients was 67 percent; the rate for patients enrolled with Other Purchasers was 73 percent. Table 6 displays these statewide rates.

Table 6: Statewide Weighted Rates* for Controlling High Blood Pressure

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	66.9%	65.8% - 67.9%	7,522
Other Purchasers	72.6%	71.3% - 73.8%	4,821

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 6.1 displays the statewide rates over time. The rates at which this health care best practice was successfully achieved with patients of both purchasers have improved since 2007. However, gaps between purchasers have been present every year since 2007 and continue to persist.

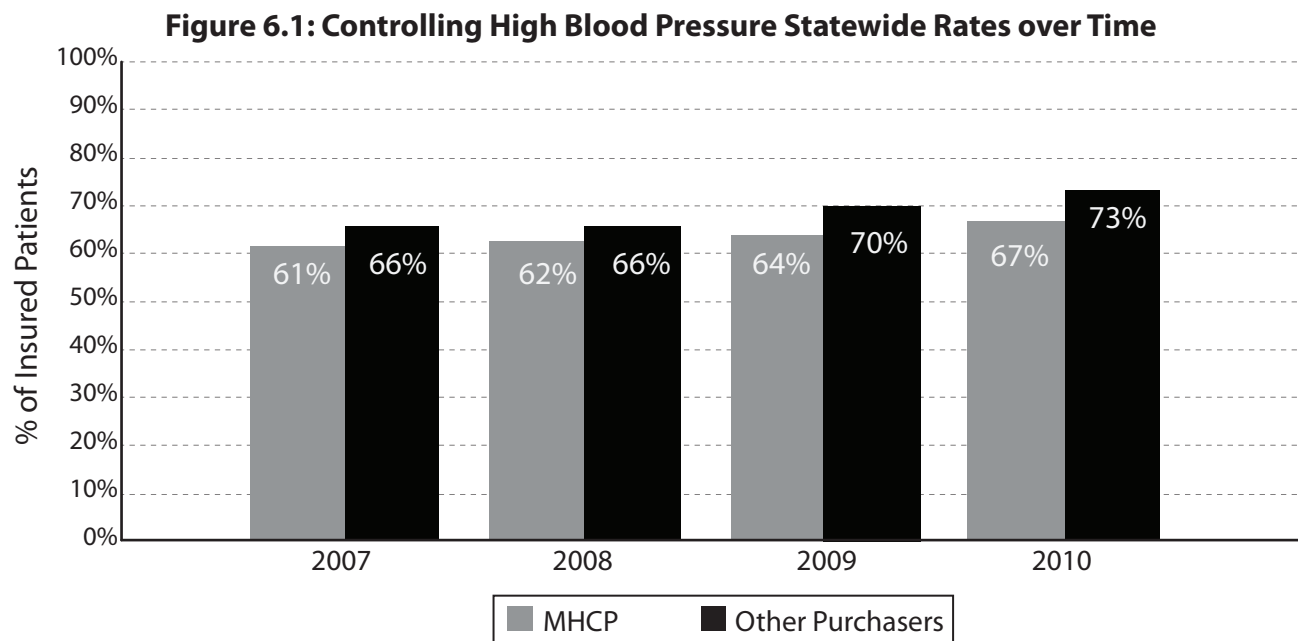


Figure 6.2 focuses on the gaps between purchasers over time. For the Controlling High Blood Pressure measure, the gap between purchasers widened between 2008 and 2009 but this is not a statistically significant difference. In 2010, the gap declined slightly.

Figure 6.2: Controlling High Blood Pressure: Statewide Gaps between MHCP Patients and Patients Enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



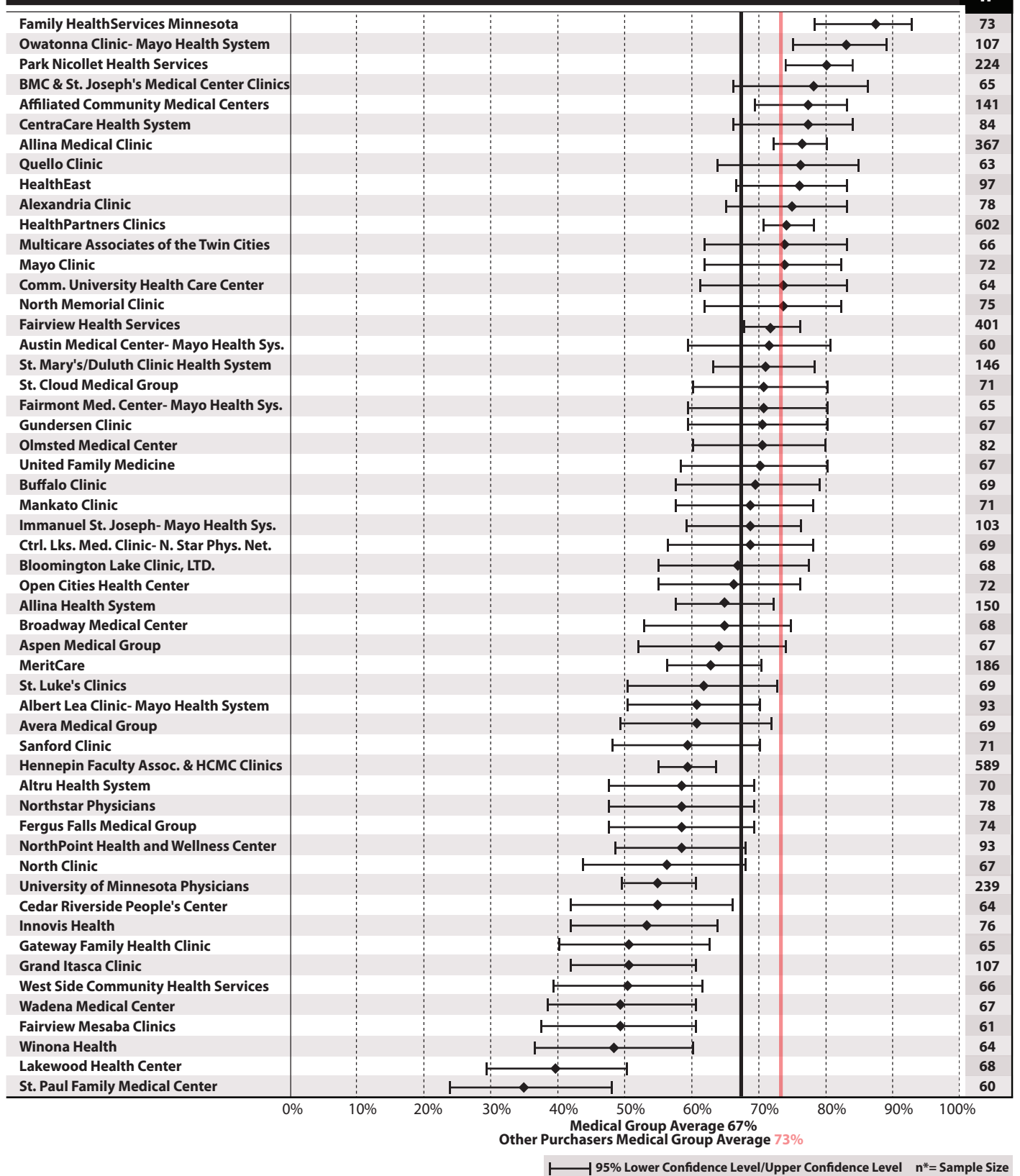
Medical Group Performance Highlights

Chart 6 provides the MHCP Controlling High Blood Pressure rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 54 medical groups are reportable for this measure because they had at least 60 patients in their sample – a large enough sample to ensure a reasonable level of confidence in the reported rate. These 54 medical groups account for 6,270 of the 7,522 MHCP patients (83 percent) who are eligible for this measure statewide. The 54 reportable medical groups account for 20 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **Family HealthServices Minnesota**, achieved best practice for 88 percent of their MHCP patients, while **St. Paul Family Medical Center**, the least successful, achieved it with only 35 percent. A detailed table of medical group rates can be found in Appendix 3.

Chart 6: Blood Pressure Rates by Medical Group

(Minnesota Health Care Programs with 60+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Family HealthServices Minnesota had the highest rate of **Controlling High Blood Pressure** with their MHCP patients, at 88 percent. Seven medical groups had rates and confidence intervals that were fully above the medical group average of 67 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Family HealthServices Minnesota
- Owatonna Clinic - Mayo Health System
- Park Nicollet Health Services
- Affiliated Community Medical Centers
- Allina Medical Clinic
- HealthPartners Clinics
- Fairview Health Services

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Controlling High Blood Pressure was made by **Mayo Clinic**, which achieved a 22 percentage point increase for their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following three medical groups achieved consistently high performance and above average rates over the past three years for Controlling High Blood Pressure:

- Allina Medical Clinic
- HealthPartners Clinics
- Park Nicollet Health Services

Three medical groups showed consistent improvement over three years:

- CentraCare Health System
- Park Nicollet Health Services
- St. Mary's/Duluth Clinic Health System

Zero groups showed consistent decreases over three years.

Zero medical groups had rates that were relatively stable over three years.

Ten medical groups did not have a discernable pattern over three years.

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“Living with Illness” measures

Use of Appropriate Medications for People with Asthma (Ages 5-50)

This measures the percentage of patients ages 5-50 with persistent asthma who were appropriately prescribed medication. The data for this measure are collected from health plan claims (See Glossary).

MHCP patients have a significantly lower rate of acquiring appropriate asthma medications than patients enrolled with Other Purchasers ($p < 0.05$). The statewide MHCP rate for this measure was 89 percent; the rate for Other Purchasers was 93 percent. Table 7 displays these statewide rates.

Table 7: Statewide Rates* for Use of Appropriate Medications for People with Asthma

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	88.6%	87.6% - 89.5%	4,102
Other Purchasers	93.1%	92.6% - 93.5%	10,312

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 7.1: Use of Appropriate Medications for People with Asthma Statewide Rates over Time

The measurement specifications have changed since last year so a comparison over time is not possible.

Figure 7.2: Use of Appropriate Medications for People with Asthma: Statewide Gaps between Purchasers by Year

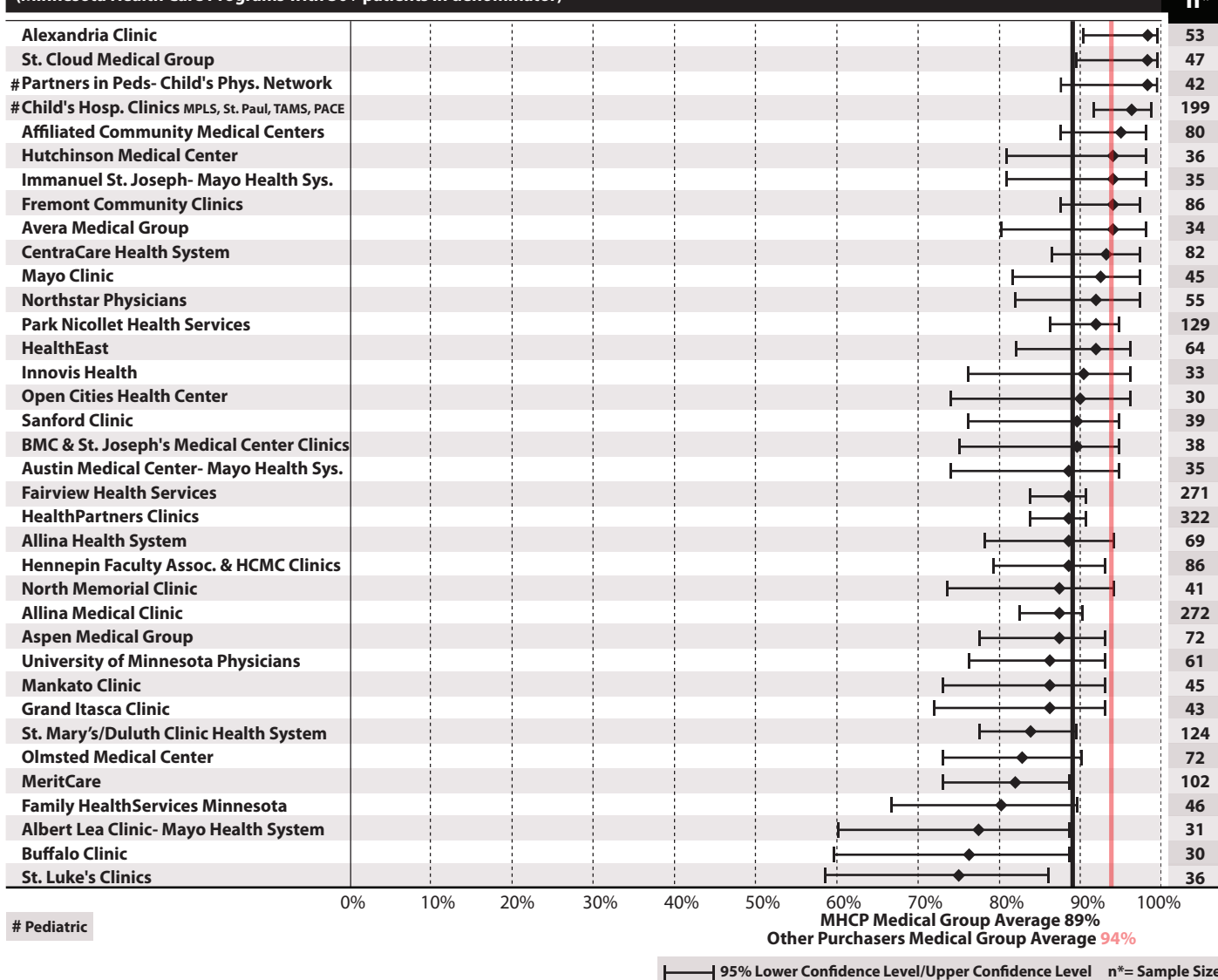
The measurement specifications have changed since last year so a comparison over time is not possible.

Medical Group Performance Highlights

Chart 7.1 provides the MHCP Use of Appropriate Medications for People with Asthma (ages 5-50) rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 36 medical groups are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 36 medical groups account for 2,885 of the 4,102 MHCP patients (70 percent) who are eligible for this measure statewide. The 36 reportable medical groups account for 18 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical groups, **Alexandria Clinic**, **St. Cloud Medical Group**, and **Partners in Pediatrics- Children's Physician Network**, achieved best practice for 98 percent of their MHCP patients, while **St. Luke's Clinics**, the least successful, achieved it with only 75 percent. A detailed table of medical group rates can be found in Appendix 3.

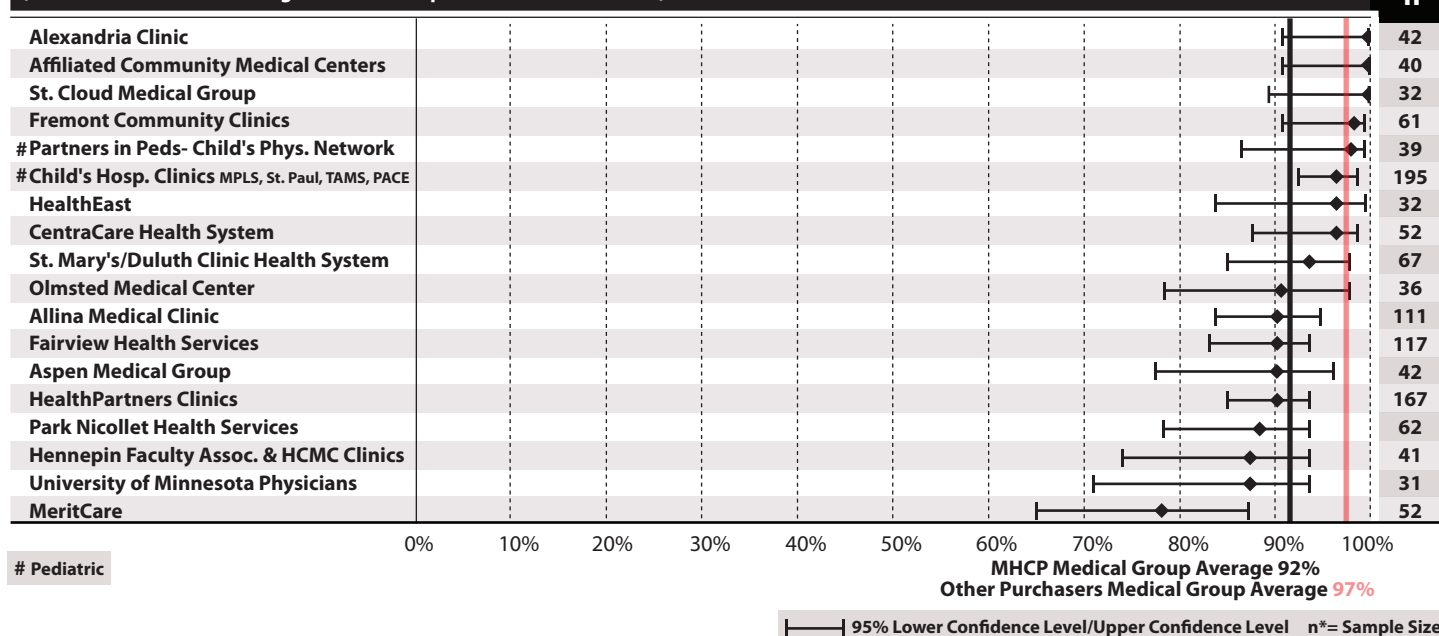
Chart 7.1: Asthma Care Rates by Medical Group - Ages 5-50
(Minnesota Health Care Programs with 30+ patients in denominator)



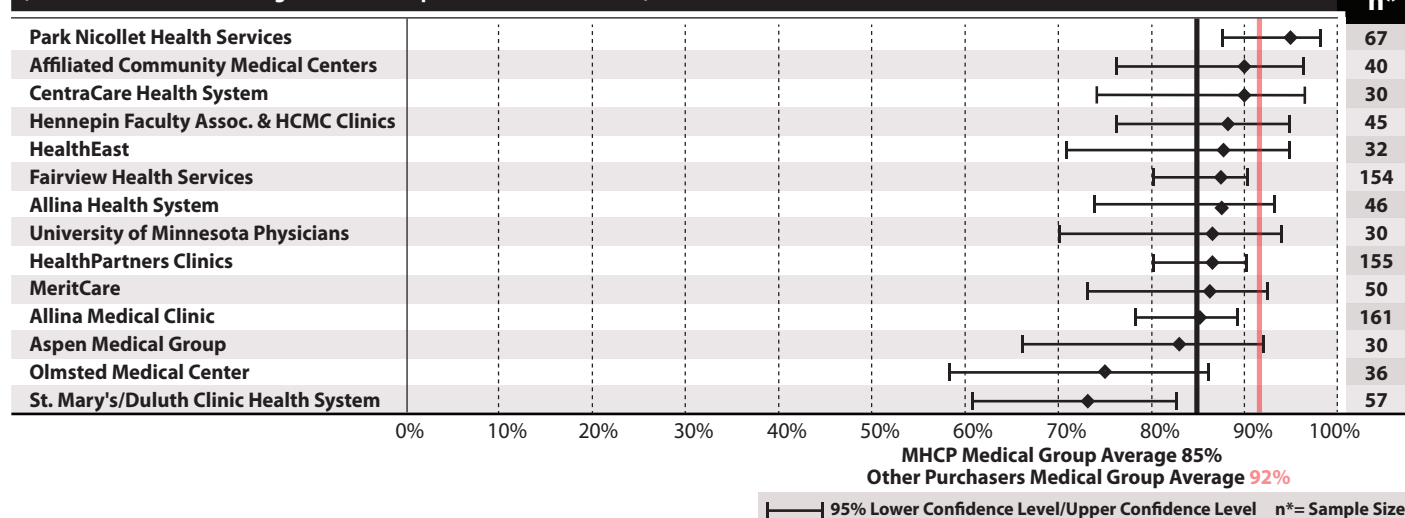
Frequently, it is helpful for medical groups to see performance rates for asthma care segmented for children and adults. Chart 7.2 provides the Use of Appropriate Medications for People with Asthma for children ages 5-17. Chart 7.3 provides medical group rates for this measure for adults ages 18-50. The MHCP rates are displayed by medical group from highest to lowest. The charts also include the average medical group rates for MHCP and Other Purchasers.

Chart 7.2: Asthma Care Rates by Medical Group - Ages 5-17

(Minnesota Health Care Programs with 30+ patients in denominator)


Chart 7.3: Asthma Care Rates by Medical Group - Ages 18-50

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Alexandria Clinic had the highest rate of **Appropriate Medications for People with Asthma for ages 5-50** with their MHCP patients, at 98 percent. Three medical groups had rates and confidence intervals that were fully above the medical group average of 89 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Alexandria Clinic
- St. Cloud Medical Group
- Children's Hospital Clinics, MPLS, St. Paul, TAMS, PACE

Biggest Improvement from 2009-2010

Not applicable due to changes in the measurement specifications.

Medical Group Performance Over Time (2008-2010)

Not applicable due to changes in the measurement specifications.

"Getting Better" measures

Appropriate Treatment for Children with Upper Respiratory Infection

This measures the percentage of children ages three months to 18 years with a diagnosis of upper respiratory infection (URI) who were not given an antibiotic prescription within three days of the episode period (July 1 of prior year to June 30 of measurement year). Appropriate treatment is to not provide an antibiotic, since most URIs are caused by a virus. A higher rate indicates appropriate treatment (i.e., the proportion for whom antibiotics were not prescribed). Data collected for this measure are from health plan claims (See Glossary).

MHCP patients and patients enrolled with Other Purchasers have similar rates of Appropriate Treatment for Children with Upper Respiratory Infections. The statewide MHCP rate for this measure was 88 percent; the rate for Other Purchasers was 87 percent. Table 8 displays these statewide rates.

Table 8: Statewide Rates* for Appropriate Treatment for Children with URI

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	87.9%	87.4% - 88.3%	18,534
Other Purchasers	87.4%	86.9% - 87.8%	18,140

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 8.1 displays the statewide rates over time. The rates for both purchasers have remained stable every year since 2006 when data were first collected for this measure. The gaps between purchasers have been small every year since 2006.

The figure also displays the 2010 National HEDIS Medicaid and Commercial rates as benchmarks for comparison. The statewide MHCP and Other Purchasers rates are both slightly above their respective national HEDIS benchmarks. In other words, Minnesota medical groups are slightly more successful in achieving this health care best practice with their patients, regardless of purchaser, than physicians nationwide.

Figure 8.1: Appropriate Treatment for Children with URI Statewide Rates over Time

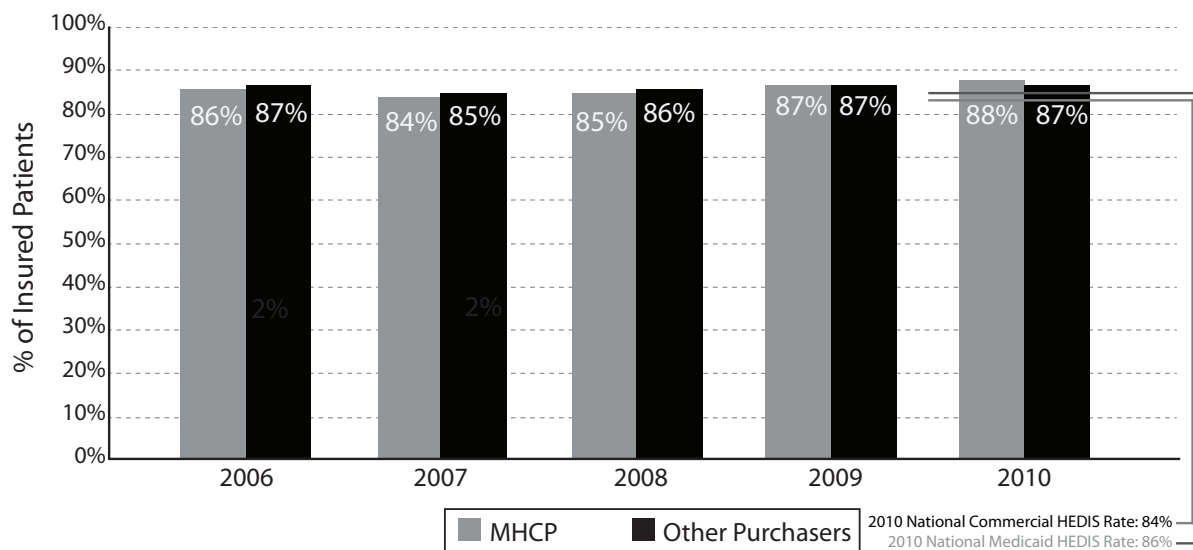


Figure 8.2 focuses on the gaps between purchasers over time. For the URI measure, the gap between purchasers has remained stable and small since 2006.

Figure 8.2 Appropriate Treatment for Children with URI: Statewide Gaps between MHCP patients and patients Enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



Medical Group Performance Highlights

Chart 8 provides the MHCP rate of Appropriate Treatment for Children with URI by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 95 medical groups are reportable for this measure because they had at least 30 patients that met the measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 95 medical groups account for 16,277 of the 18,534 MHCP patients (88 percent) who are eligible for this measure statewide. The 95 reportable medical groups account for 32 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical groups, **Cannon Valley Clinic- Mayo Health System** and **Chippewa County Montevideo Hospital and Medical Clinic**, achieved best practice with 100 percent of their MHCP patients, while the least successful, **Avera Medical Group**, achieved it with only 31 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

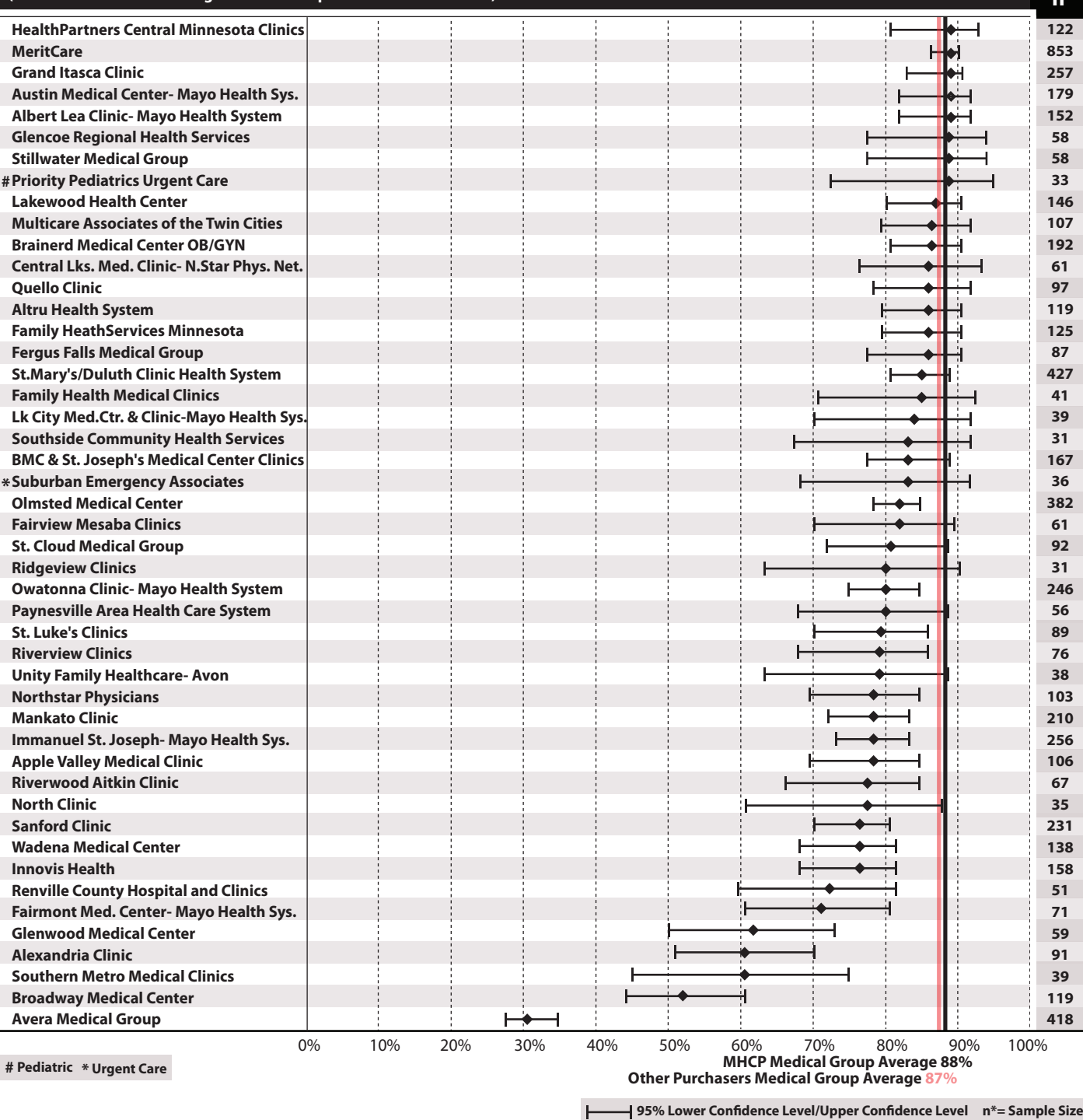
Chart 8: Appropriate Treatment for Children with Upper Respiratory Infection

(Minnesota Health Care Programs with 30+ patients in denominator)



Chart 8: Appropriate Treatment for Children with Upper Respiratory Infection

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Cannon Valley Clinic-Mayo Health System and **CCMH-Montevideo Clinic** had the highest rate of **Appropriate Treatment for Children with URI** with their MHCP patients, at 100 percent. Twenty-four medical groups had rates and confidence intervals that were fully above the medical group average of 88 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Cannon Valley Clinic - Mayo Health System
- CCMH - Montevideo Clinic
- Open Cities Health Center
- Pediatric and Adolescent Services
- NorthPoint Health and Wellness Center
- Pediatric and Young Adult Medicine-Children's Physician Network
- United Hospital District Clinics
- Hennepin Faculty Associates & HCMC Clinics
- University of Minnesota Physicians
- Buffalo Clinic
- CentraCare Health System
- Fremont Community Clinics
- HealthPartners Clinics
- Aspen Medical Group
- Fridley Children's & Teenagers' Medical Center-Children's Physician Network
- Allina Medical Clinic
- Mayo Clinic
- North Memorial Clinic
- Children's Hospital Clinics, MPLS, St. Paul, TAMS, PACE
- Emergency Physicians
- West Side Community Health Services
- HealthEast
- Park Nicollet Health Services
- Fairview Health Services

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Appropriate Treatment for Children with URI was made by **Riverview Clinics**, which achieved greater than a 20 percentage point increase in their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following eight medical groups achieved consistently high performance and above average rates over the past three years for Treatment for Children with Upper Respiratory Infection:

- Allina Medical Clinic
- Aspen Medical Group
- Fairview Health Services
- HealthPartners Clinics
- Mayo Clinic
- North Memorial Clinic
- Park Nicollet Health Services
- University of Minnesota Physicians

Five medical groups showed consistent improvement over three years:

- Allina Medical Clinic
- Altru Health System
- CentraCare Health System
- Central Lakes Medical Clinic- Northstar Physician Network
- Lakewood Health Center

Two medical groups showed consistent decreases over three years:

- Alexandria Clinic
- Innovis Health

Twelve medical groups had rates that were relatively stable over three years:

- Apple Valley Clinic
- Express HealthCare
- Fairview Health Services
- HealthPartners Clinics
- Mayo Clinic
- MeritCare
- MinuteClinic
- North Memorial Clinic
- Northwest Family Physicians
- Park Nicollet Health Services
- United Family Medicine
- University of Minnesota Physicians

Thirty-three medical groups did not have a discernable pattern.

"Getting Better" measures

Appropriate Testing for Children with Pharyngitis

This measures the percentage of children ages 2-18 with Pharyngitis (a sore throat) who were given an antibiotic and a group A streptococcus (strep) test rather than just an antibiotic for the episode period (July 1 of prior year to June 30 of measurement year). Since Pharyngitis may be caused by a virus, best practice is to test for strep when ordering an antibiotic. A higher rate represents better performance (i.e., appropriate testing). The data collected for this measure are from health plan claims (See Glossary).

MHCP patients have a significantly lower rate of Appropriate Testing for Children with Pharyngitis than patients enrolled with Other Purchasers ($p < 0.05$). This means that fewer MHCP patients with Pharyngitis who received an antibiotic also received appropriate testing. The MHCP statewide rate for Appropriate Testing for Children with Pharyngitis is 84 percent; the rate for Other Purchasers is 91 percent. Table 9 displays these statewide rates.

Table 9: Statewide Rates* for Appropriate Testing for Children with Pharyngitis

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	83.7%	82.9% - 84.4%	10,199
Other Purchasers	90.7%	90.3% - 91.1%	19,806

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 9.1 displays the statewide rates over time. The statewide rate for MHCP patients has improved every year since 2006. The statewide rate for patients enrolled with Other Purchasers remained relatively stable between report years 2006 through 2009 and has increased in 2010. Gaps exist between purchasers and these gaps have been present every year since 2006.

The figure also displays the 2010 National HEDIS Medicaid and Commercial rates as benchmarks for comparison. The statewide rates for MHCP patients and patients enrolled with Other Purchasers are both well above their respective national HEDIS benchmarks.

Figure 9.1: Appropriate Testing for Children with Pharyngitis Statewide Rates over Time

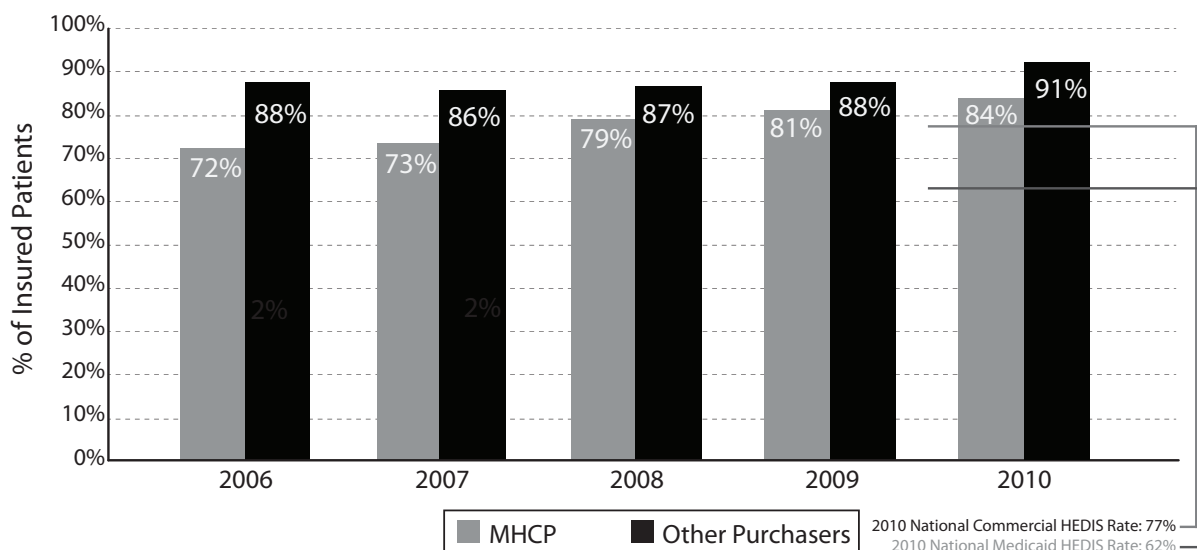
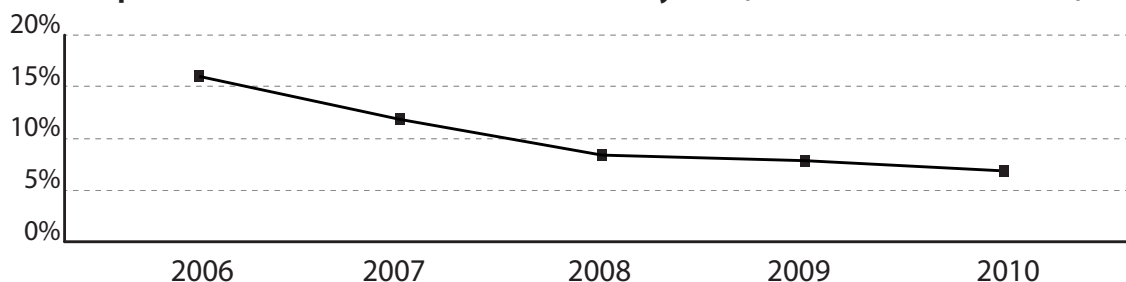


Figure 9.2 focuses on the gaps between purchasers over time. For the Appropriate Testing for Children with Pharyngitis measure, the gaps between purchasers have narrowed every year since 2006 and the change from 2006 to 2010 is statistically significant ($p_{\text{trend}} = 0.025$).

Figure 9.2 Appropriate Testing for Children with Pharyngitis: Statewide Gaps between MHCP patients and patients Enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



Medical Group Performance Highlights

Chart 9 provides the MHCP Appropriate Testing for Children with Pharyngitis rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 73 medical groups are reportable for this measure because they had at least 30 patients that met the measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 73 medical groups account for 8,178 of the 10,199 MHCP patients (80 percent) who are eligible for this measure statewide. The 73 reportable medical groups account for 26 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical groups, **Pediatric and Young Adult Medicine-Children's Physician Network**, **Express Healthcare**, **Fridley Children's and Teenagers' Medical Centers-Children's Physician Network**, and **Open Cities Health Center**, achieved best practice with 100 percent of their MHCP patients, while the least successful, **ELEAH Medical Center**, achieved it with only 20 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

Chart 9: Appropriate Testing for Children with Pharyngitis

(Minnesota Health Care Programs with 30+ patients in denominator)

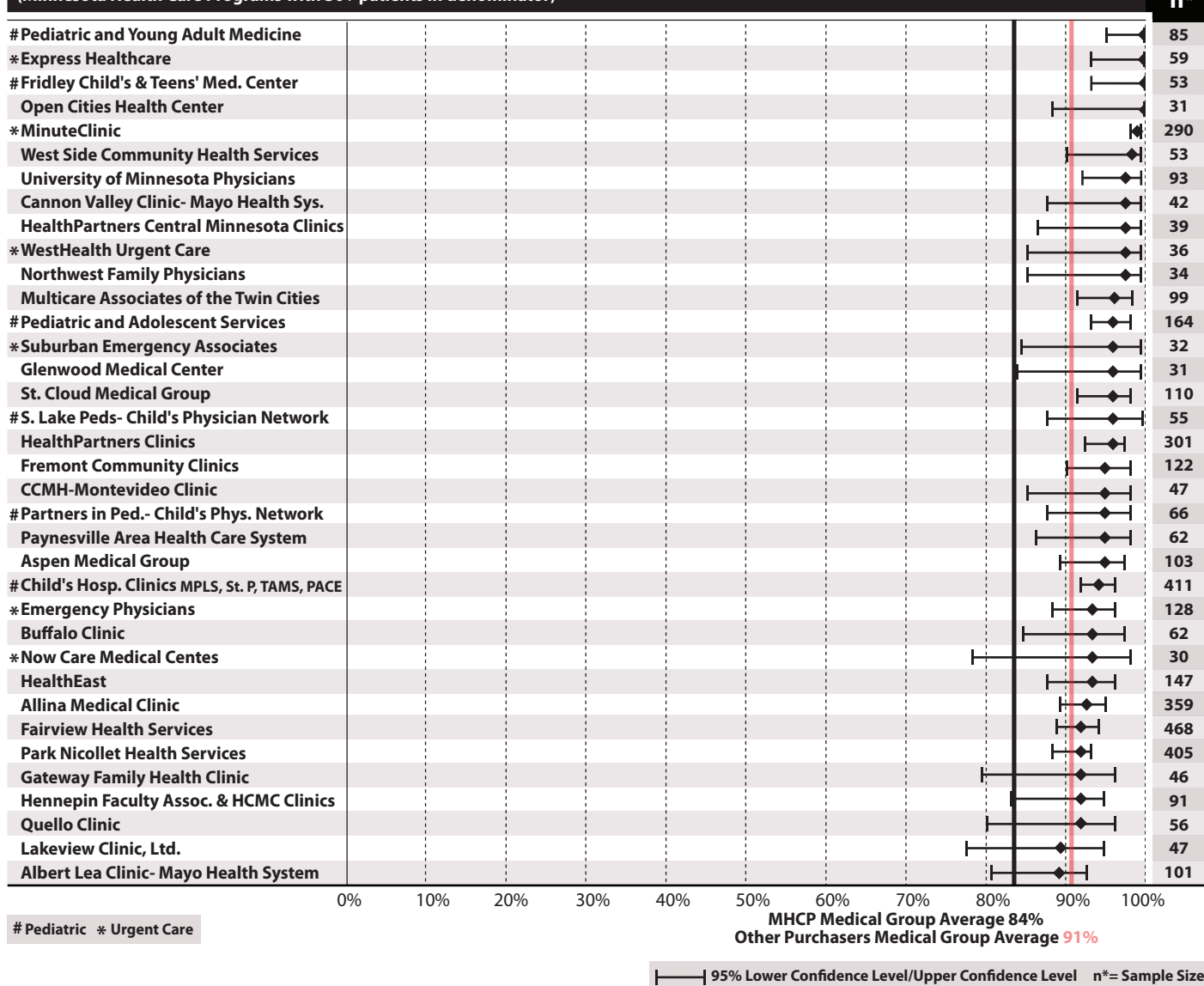
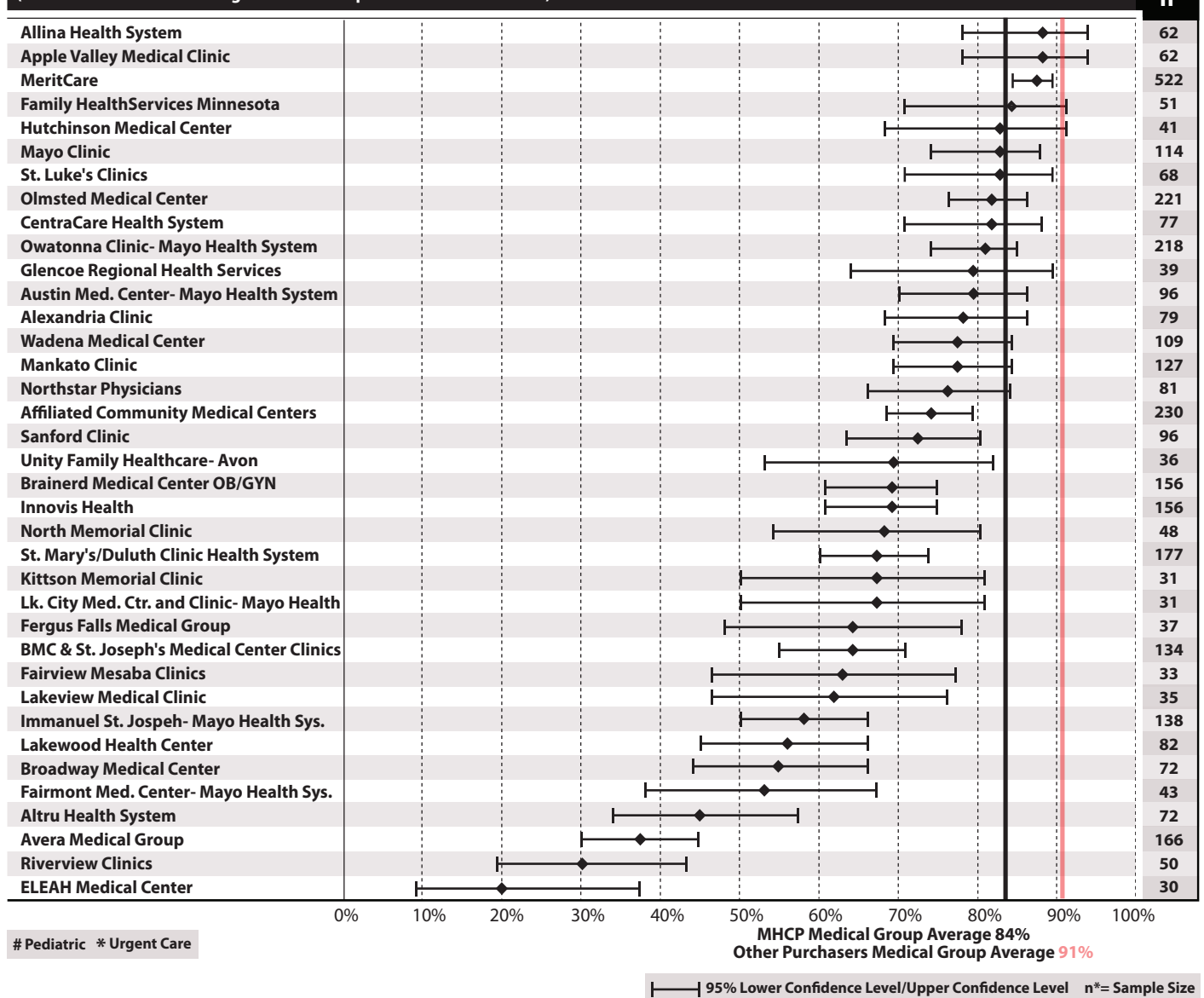


Chart 9: Appropriate Testing for Children with Pharyngitis

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Pediatric and Young Adult Medicine-Children's Physician Network, Express Healthcare, Fridley Children's and Teenagers' Medical Centers- Children's Physician Network, and Open Cities Health Center had the highest rate of **Appropriate Testing of Children with Pharyngitis** with their MHCP patients, at 100 percent. Thirty-one medical groups had rates and confidence intervals that were fully above the medical group average of 84 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Pediatric and Young Adult Medicine - Children's Physician Network
- Express Healthcare
- Fridley Children's & Teenagers' Medical Centers - Children's Physician Network
- Open Cities Health Center
- MinuteClinic
- West Side Community Health Services
- University of Minnesota Physicians
- Cannon Valley Clinic- Mayo Health System
- HealthPartners Central Minnesota Clinics
- WestHealth Urgent Care
- Northwest Family Physicians
- Multicare Associates of the Twin Cities
- Pediatric and Adolescent Services
- Suburban Emergency Associates
- Glenwood Medical Center
- St. Cloud Medical Group
- South Lake Pediatrics - Children's Physician Network
- HealthPartners Clinics
- Fremont Community Clinics
- CCMH-Montevideo Clinic
- Partners in Pediatrics - Children's Physician Network
- Paynesville Area Health Care System
- Aspen Medical Group
- Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE
- Emergency Physicians
- Buffalo Clinic
- HealthEast
- Allina Medical Clinic
- Fairview Health Services
- Park Nicollet Health Services
- MeritCare

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Appropriate Testing for Children with Pharyngitis was made by **Fairview Mesaba Clinics**, which achieved greater than a 27 percentage point increase in their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following ten medical groups achieved consistently high performance and above average rates over the past three years for Testing for Children with Pharyngitis:

- Buffalo Clinic
- Express HealthCare
- Fairview Health Services
- HealthEast
- HealthPartners Clinics
- MinuteClinic
- Multicare Associates of the Twin Cities
- Park Nicollet Health Services
- University of Minnesota Physicians
- WestHealth Urgent Care

Six medical groups showed consistent improvement over three years:

- Allina Medical Clinic
- Aspen Medical Group
- Fairview Mesaba Clinics
- HealthPartners Central Minnesota Clinics
- MeritCare
- St. Cloud Medical Group

Three medical groups showed consistent decreases over three years:

- BMC & St. Joseph's Medical Center Clinics
- Fergus Falls Medical Group
- Olmsted Medical Center

Nine medical groups had rates that were relatively stable over three years:

- Apple Valley Clinic
- Buffalo Clinic
- Express HealthCare
- Fairview Health Services
- HealthPartners Clinics
- Lakeview Clinic, Ltd.
- Multicare Associates of the Twin Cities
- St. Luke's Clinics
- St. Mary's/Duluth Clinic Health System

Twenty-six medical groups did not have a discernable pattern.

“Staying Healthy” measures

Breast Cancer Screening

This measures the percentage of women ages 52-69 who received a mammogram in the prior two years. The data for this measure are collected from health plan claims (See Glossary).

MHCP patients have a significantly lower rate of Breast Cancer Screening than patients enrolled with Other Purchasers ($p < 0.05$). The MHCP statewide rate for Breast Cancer Screening is 63 percent; the rate for Other Purchasers is 76 percent. This means that statewide, 63 percent of women enrolled in MHCP had Breast Cancer Screening according to guidelines while 76 percent of women enrolled with Other Purchasers did so. Table 10 displays these statewide rates.

Table 10: Statewide Rates* for Breast Cancer Screening

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	62.5%	61.6% - 63.4%	11,018
Other Purchasers	75.7%	75.5% - 75.8%	200,123

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 10.1 displays the statewide rates over time. The rates for both purchasers have improved since 2004. Since 2007, the rates for MHCP patients have consistently improved. The rates for patients enrolled with Other Purchasers remained relatively stable between report years 2005 and 2009 and slightly decreased in 2010. Gaps between purchasers have been present every year since 2004.

Figure 10.1: Breast Cancer Screening Rates over Time

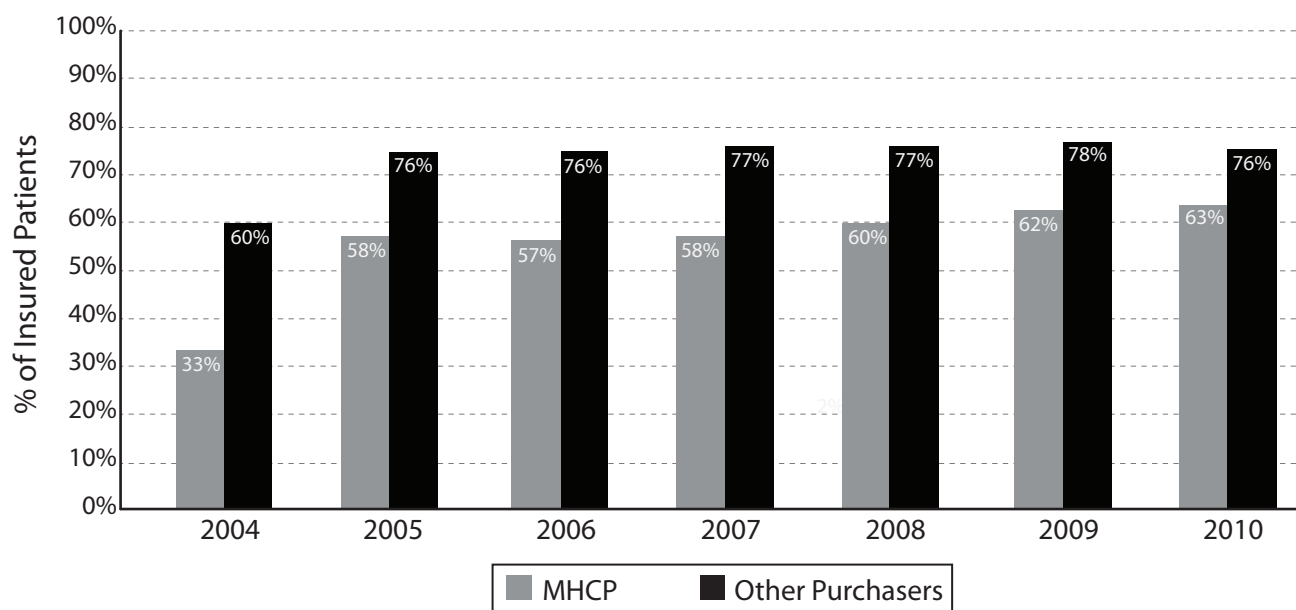
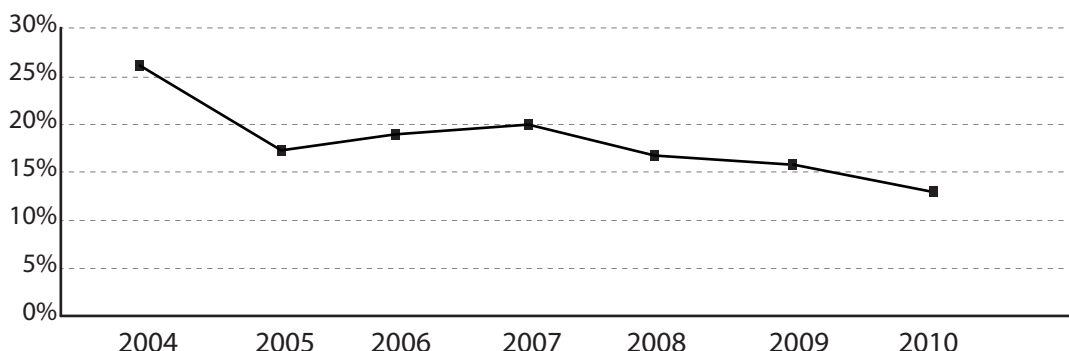


Figure 10.2 focuses on the gaps between purchasers over time. For the Breast Cancer Screening measure, the gap declined substantially between 2004 and 2005, remained relatively stable and since report year 2007, has slowly continued to decrease. From 2004 to 2010 the gap has significantly declined ($p_{\text{trend}} = 0.018$).

Figure 10.2 Breast Cancer Screening: Statewide Gaps between Purchasers by Year (Other Purchasers - MHCP)



Medical Group Performance Highlights

Chart 10 provides the MHCP Breast Cancer Screening rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 64 medical groups are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 64 medical groups account for 8,487 of the 11,018 MHCP patients (77 percent) who are eligible for this measure statewide. The 64 reportable medical groups account for 21 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **Quello Clinic**, achieved best practice with 84 percent of their MHCP patients, while the least successful, **United Family Medicine**, achieved it with only 45 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

Chart 10: Breast Cancer Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)

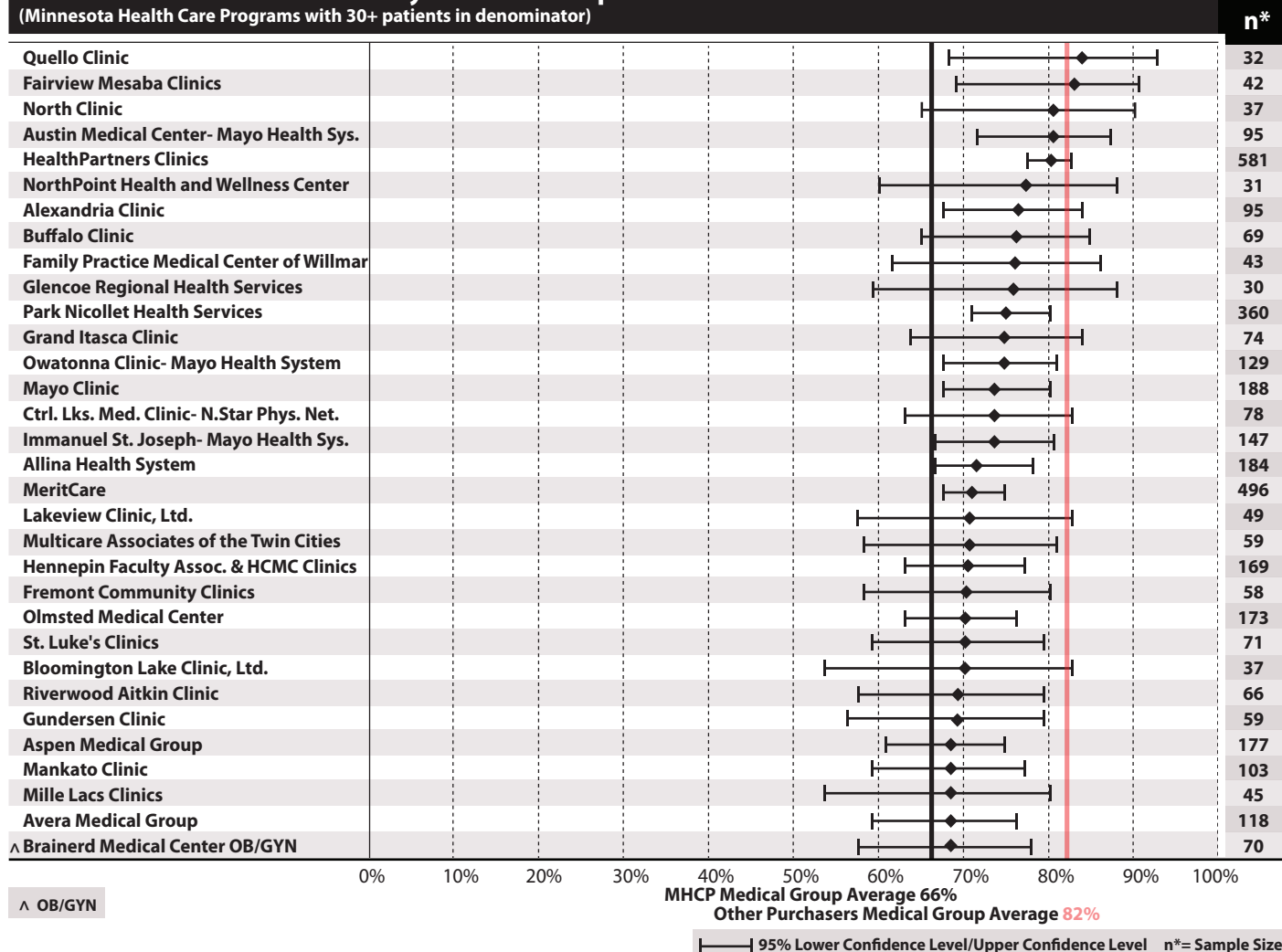
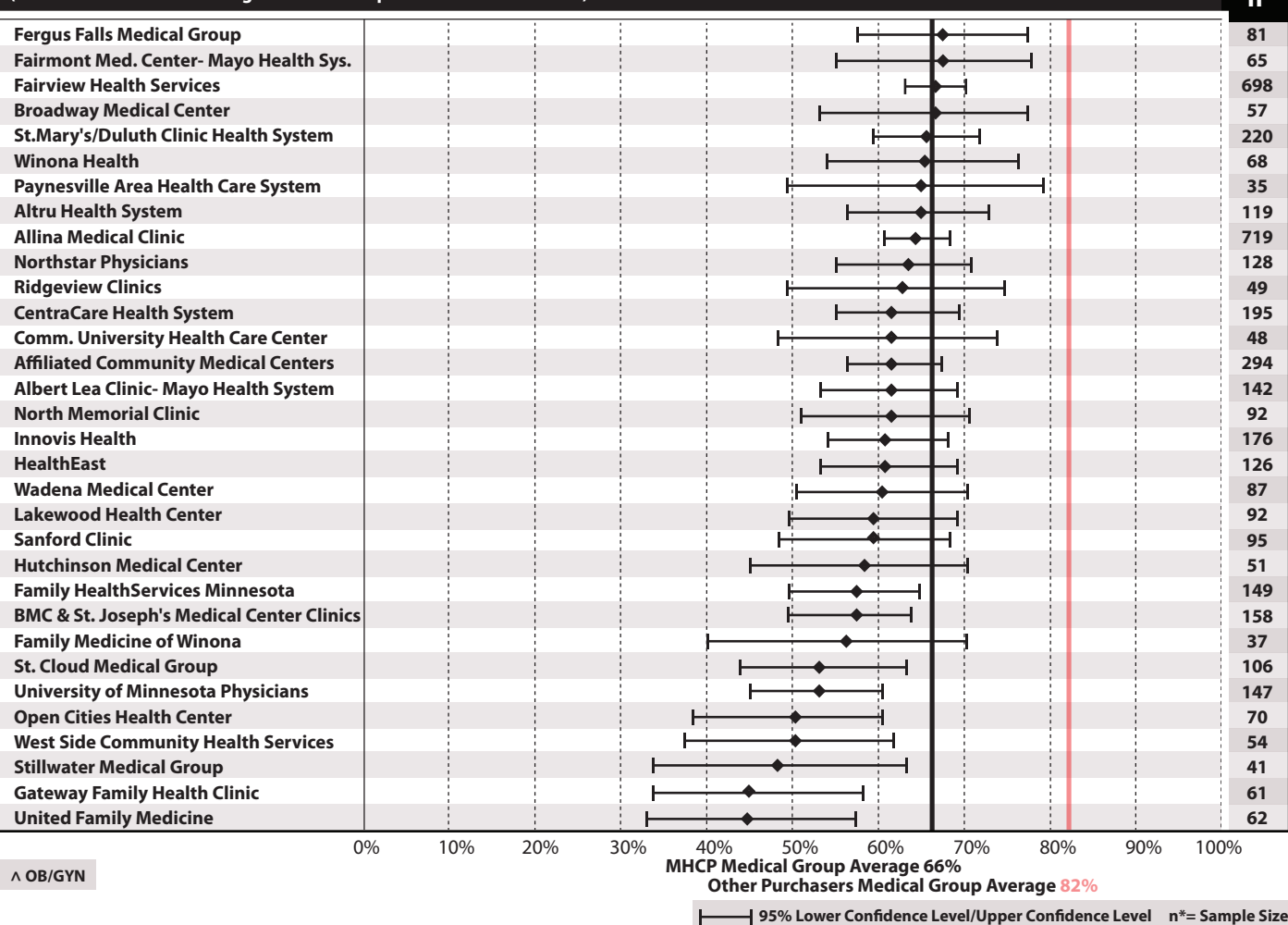


Chart 10: Breast Cancer Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Quello Clinic had the highest **Breast Cancer Screening** rate for MHCP patients, at 84 percent. Ten medical groups had rates and confidence intervals that were fully above the medical group average of 67 percent for patients enrolled in MHCP. Medical groups are listed below in performance order from high to low.

- Quello Clinic
- Fairview Mesaba Clinics
- Austin Medical Center- Mayo Health System
- HealthPartners Clinics
- Alexandria Clinic
- Park Nicollet Health Services
- Owatonna Clinic- Mayo Health System
- Mayo Clinic
- Immanuel St. Joseph- Mayo Health System
- MeritCare

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Breast Cancer Screening was made by **Fairview Mesaba Clinics**, which achieved a 19 percentage point increase in their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following two medical groups achieved consistently high performance and above average rates over the past three years for Breast Cancer Screening:

- HealthPartners Clinics
- Park Nicollet Health Services

Three medical groups showed consistent improvement over three years:

- Bloomington Lake Clinic, Ltd.
- Buffalo Clinic
- Fairview Mesaba Clinics

Three medical groups showed consistent decreases over three years:

- CentraCare Health System
- Lakewood Health Center
- Sanford Clinic

Two medical groups had rates that were relatively stable over three years:

- Allina Medical Clinic
- St. Mary's/Duluth Clinic Health System

Thirty-one medical groups did not have a discernable pattern.

"Staying Healthy" measures

Cervical Cancer Screening

This measures the percentage of women ages 24-64 who received one or more Pap tests to screen for cervical cancer in the measurement year or the two years prior to the measurement year. The data for this measure are collected from health plan claims (See Glossary).

For MHCP patients, the continuous enrollment requirement is one year. Cervical Cancer Screening is the only measure that according to HEDIS definitions there is a different continuous enrollment criterion for MHCP patients (one year) versus patients enrolled with Other Purchasers (three years). This adjustment in the continuous enrollment criterion allows more MHCP patients to be represented in the measure denominator. The look back period of three years is used for both patient populations to calculate the numerator. Because of the different continuous enrollment criteria for MHCP and Other Purchaser patients, rates for the two populations may be less comparable than is the case for other measures included in this report. Comparisons between these populations for this measure must be done with caution.

MHCP patients have a significantly lower rate of Cervical Cancer Screening than patients enrolled with Other Purchasers ($p < 0.05$). The MHCP statewide rate for Cervical Cancer Screening is 72 percent; the rate for Other Purchasers is 78 percent. Table 11 displays these statewide rates.

Table 11: Statewide Rates* for Cervical Cancer Screening

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	71.5%	71.1% - 71.9%	53,056
Other Purchasers	77.9%	77.8% - 78.1%	292,968

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 11.1 displays the statewide rates over time. The rates for patients of both purchasers increased substantially from 2004 to 2005 and have remained fairly stable since then.

The figure also includes the 2010 National HEDIS Medicaid and Commercial rates as benchmarks for comparison. The statewide MHCP rate has exceeded the 2010 national Medicaid HEDIS benchmark; the Other Purchasers rate slightly exceeded the 2010 national HEDIS Commercial benchmark.

Figure 11.1: Cervical Cancer Screening Statewide Rates over Time

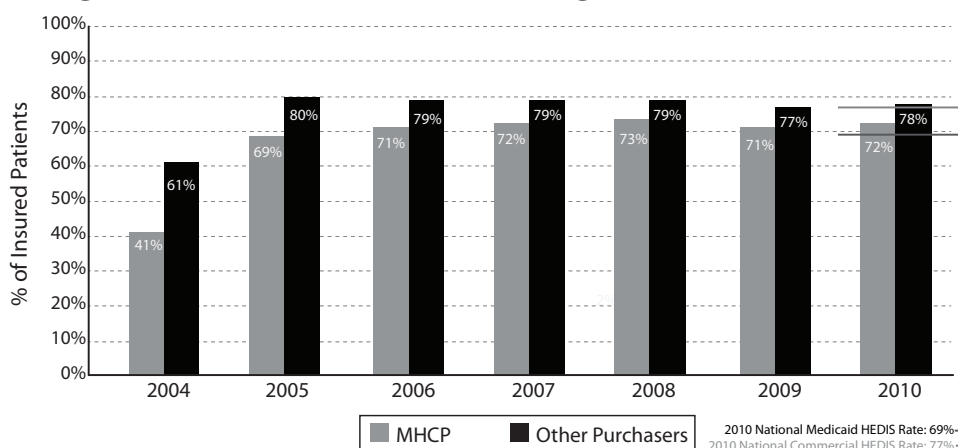
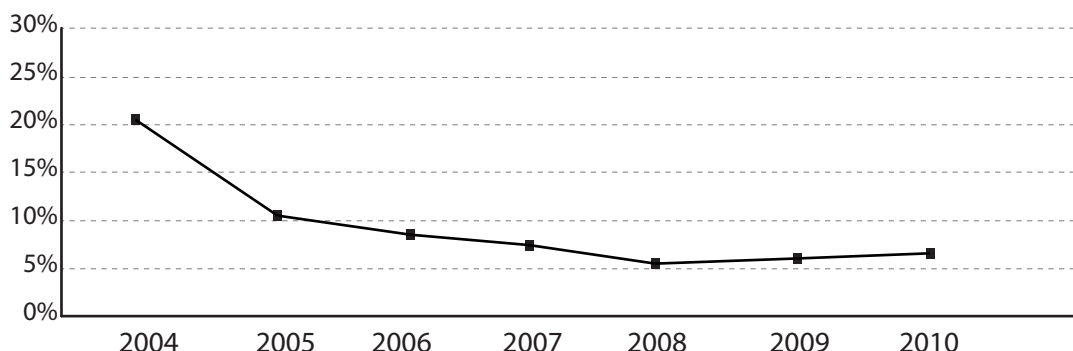


Figure 11.2 focuses on the gaps between purchasers over time. For the Cervical Cancer Screening measure, since 2004 the gap has narrowed and has continued to remain relatively stable between report years 2005 through 2010. The gap has narrowed considerably since 2004 and this change is statistically significant ($p_{\text{trend}} = 0.03$).

Figure 11.2 Cervical Cancer Screening: Statewide Gaps between MHCP patients and patients Enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



Medical Group Performance Highlights

Chart 11 provides the MHCP Cervical Cancer Screening rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 114 medical groups are reportable for this measure because they had at least 30 patients that met measure specifications – enough patients to ensure a reasonable level of confidence in the reported rate. These 114 medical groups account for 45,262 of the 53,056 MHCP patients (85 percent) who are eligible for this measure statewide. The 114 reportable medical groups account for 28 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **John A. Haugen Associates**, achieved best practice with 100 percent of their MHCP patients, while the least successful, **Dr. Bobby K. Yang**, achieved it with only 29 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

Chart 11: Cervical Cancer Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)

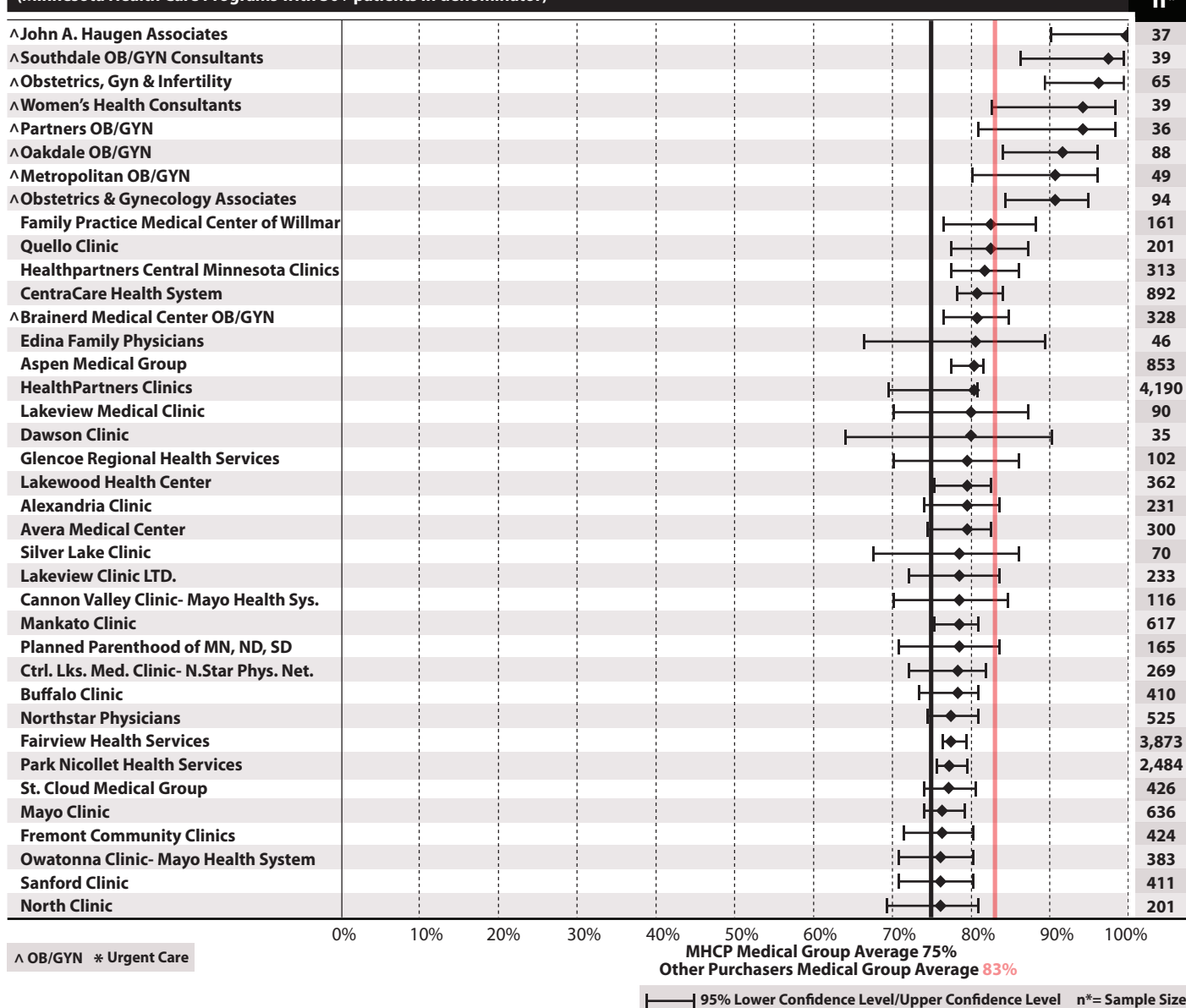


Chart 11: Cervical Cancer Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)

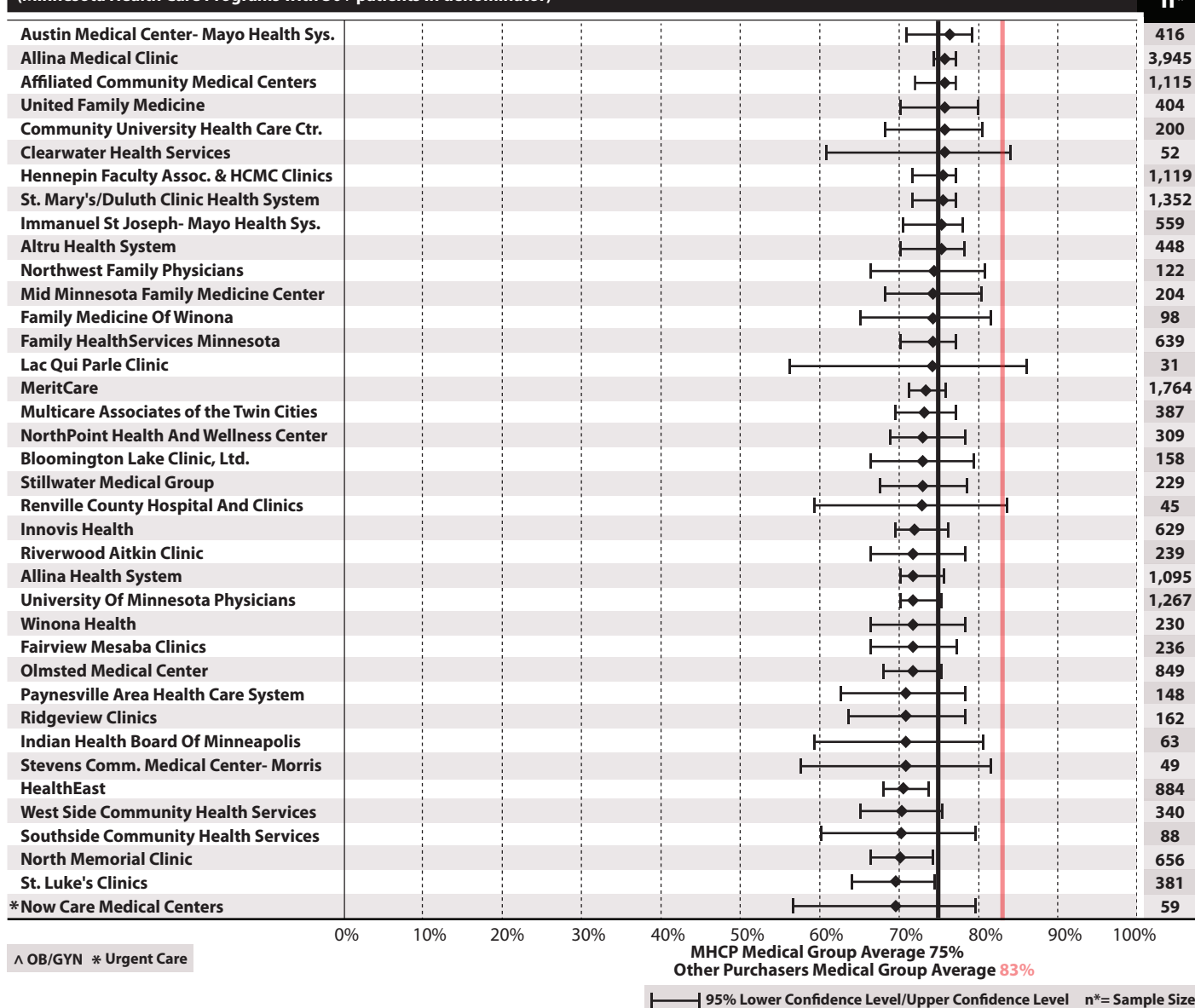
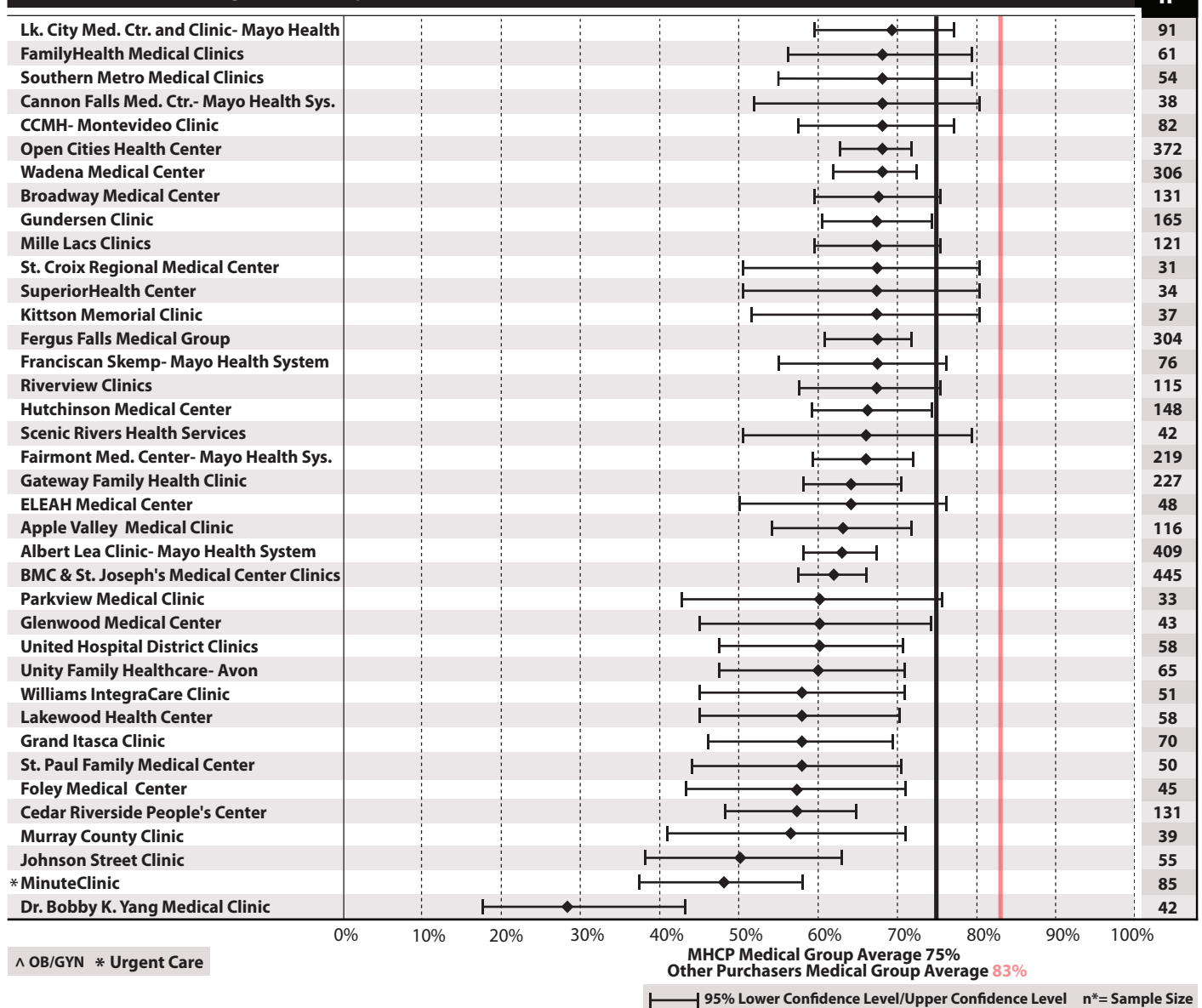


Chart 11: Cervical Cancer Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

John A. Haugen Associates had the highest **Cervical Cancer Screening** rate for MHCP patients, at 100 percent. Nineteen medical groups had rates and confidence intervals that were fully above the medical group average of 75 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- John A. Haugen Associates
- Southdale OB/GYN Consultants
- Obstetrics, Gynecology & Infertility
- Women's Health Consultants
- Partners OB/GYN
- Oakdale OB/GYN
- Metropolitan OB and GYN
- Obstetrics & Gynecology Associates
- Family Practice Medical Center of Willmar
- Quello Clinic
- HealthPartners Central Minnesota Clinics
- CentraCare Health System
- Brainerd Medical Center OB/GYN
- Aspen Medical Group
- HealthPartners Clinics
- Lakewood Health Center
- Mankato Clinic
- Fairview Health Services
- Park Nicollet Health Services

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Appropriate Medications for People with Asthma was made by **Now Care Medical Centers**, which achieved greater than a 20 percentage point increase in their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following six medical groups achieved consistently high performance and above average rates over the past three years for Cervical Cancer Screening:

- Aspen Medical Group
- CentraCare Health System
- Fairview Health Services
- HealthPartners Clinics
- Mankato Clinic
- Park Nicollet Health Services

Zero medical groups showed consistent improvement over three years:

Four medical groups showed consistent decreases over three years:

- Apple Valley Clinic
- Broadway Medical Center
- Hutchinson Medical Center
- Unity Family Healthcare-Avon

Nine medical groups had rates that were relatively stable over three years:

- Allina Medical Clinic
- Aspen Medical Group
- Buffalo Clinic
- Cedar Riverside People's Center
- Fairview Health Services
- Family Medicine of Winona
- HealthEast
- HealthPartners Clinics
- Park Nicollet Health Services

Forty-nine medical groups did not have a discernable pattern.

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“Staying Healthy” measures

Colorectal Cancer Screening

This measures the percentage of adults ages 51-75 who had appropriate screening for colorectal cancer. One or more screenings for colorectal cancer. Appropriate screenings are defined by one of the following criteria.

- Fecal occult blood test (FOBT) during the measurement year.
- Flexible sigmoidoscopy during the measurement year or the four years prior.
- Colonoscopy during the measurement year or the nine years prior.

The data for this measure are collected from health plan claims and medical record review (See Glossary).

MHCP patients have a significantly lower rate of Colorectal Cancer Screening than patients enrolled with Other Purchasers ($p < 0.05$). The MHCP statewide rate for Colorectal Cancer Screening was 47 percent; the rate for Other Purchasers was 68 percent. This means that while 68 percent of patients enrolled with Other Purchasers received appropriate colorectal cancer screening, only 47 percent of patients enrolled in MHCP did. Table 12 displays these statewide rates.

Table 12: Statewide Rates* for Colorectal Cancer Screening

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	46.5%	45.0% - 48.0%	4,080
Other Purchasers	67.8%	66.4% - 69.2%	4,223

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 12.1: Colorectal Cancer Screening Statewide Rates over Time

The measurement specifications have changed since last year so a comparison over time is not possible.

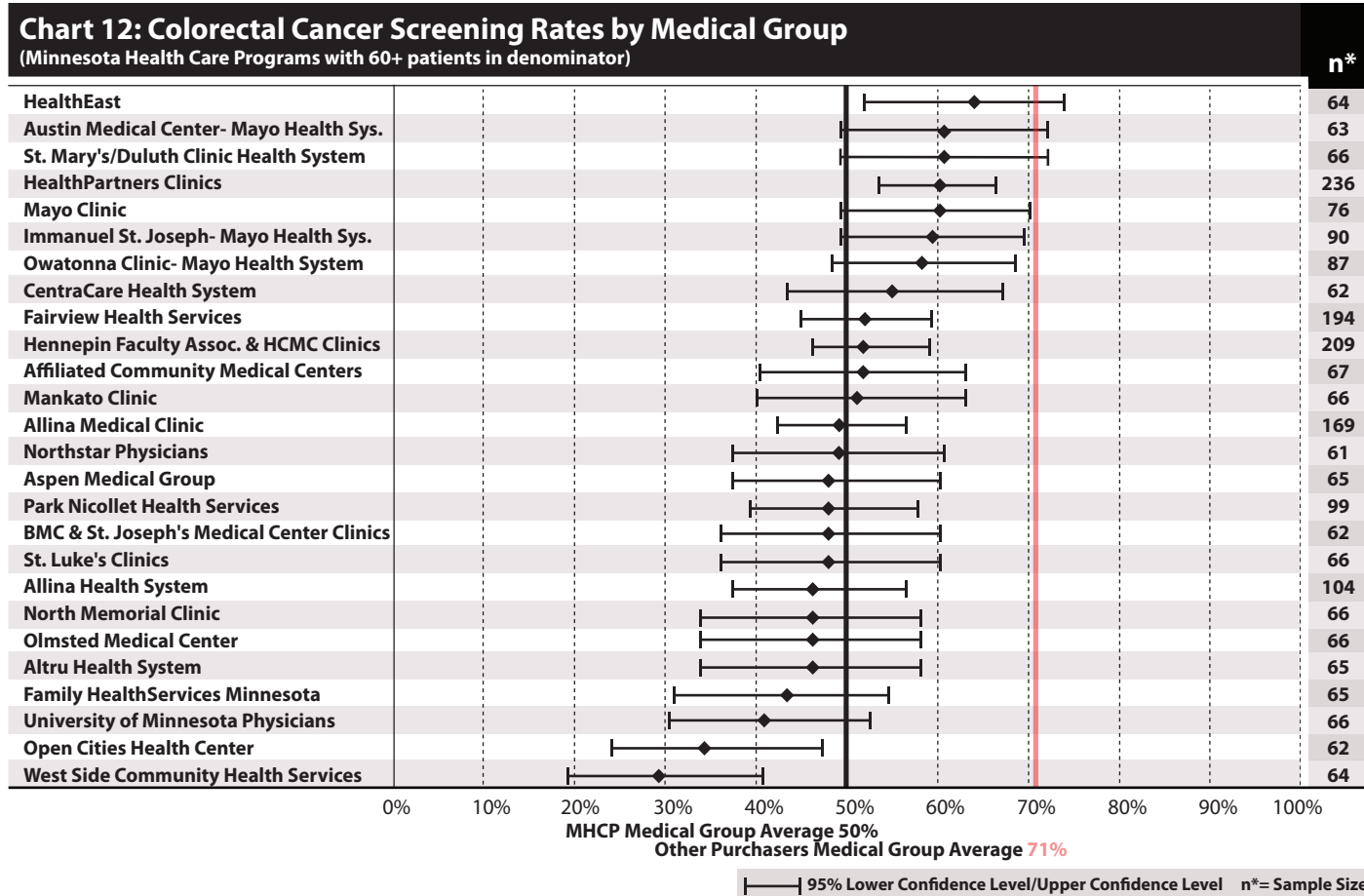
Figure 12.2: Colorectal Cancer Screening: Statewide Gaps between Purchasers by Year

The measurement specifications have changed since last year so a comparison over time is not possible.

Medical Group Performance Highlights

Chart 12 provides the MHCP Colorectal Cancer Screening rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 26 medical groups are reportable for this measure because they had at least 60 patients in their sample – a large enough sample to ensure a reasonable level of confidence in the reported rate. These 26 medical groups account for 2,360 of the 4,080 MHCP patients (58 percent) who are eligible for this measure statewide. The 26 reportable medical groups account for 11 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **HealthEast**, achieved best practice with 64 percent of their MHCP patients, while the least successful, **West Side Community Health Services**, achieved it with only 30 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

HealthEast had the highest **Colorectal Cancer Screening** rate for MHCP patients, at 64 percent. Two medical groups had rates and confidence intervals that were fully above the medical group average of 50 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- HealthEast
- HealthPartners Clinics

Biggest Improvement from 2009-2010

Not applicable due to changes in the measurement specifications.

Medical Group Performance Over Time (2008-2010)

Not applicable due to changes in the measurement specifications.

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"Staying Healthy" measures

Chlamydia Screening in Women

This measures the percentage of sexually active women aged 16-24 based on CPT codes who had at least one test for Chlamydia during the measurement year. The data for this measure are collected from health plan claims (See Glossary).

MHCP patients have a significantly higher rate of Chlamydia Screening than patients enrolled with Other Purchasers ($p < 0.05$). The MHCP statewide rate for Chlamydia Screening was 57 percent; the rate for Other Purchasers was 47 percent. Table 13 displays these statewide rates.

Table 13: Statewide Rates* for Chlamydia Screening in Women

Purchasers	Statewide Rate*	95% CI	Denominator
MHCP	56.6%	55.8% - 57.4%	14,258
Other Purchasers	46.5%	46.0% - 47.0%	44,153

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 13.1 displays the statewide rates over time. The rates for patients of both purchasers have remained stable between report years 2009 and 2010.

The figure also includes the 2010 National HEDIS Medicaid and Commercial rates as benchmarks for comparison. The statewide MHCP rate is the same as the 2010 national Medicaid HEDIS benchmark; the Other Purchasers rate is above the 2010 national Commercial benchmark.

Figure 13.1: Chlamydia Screening in Women Statewide Rates over Time

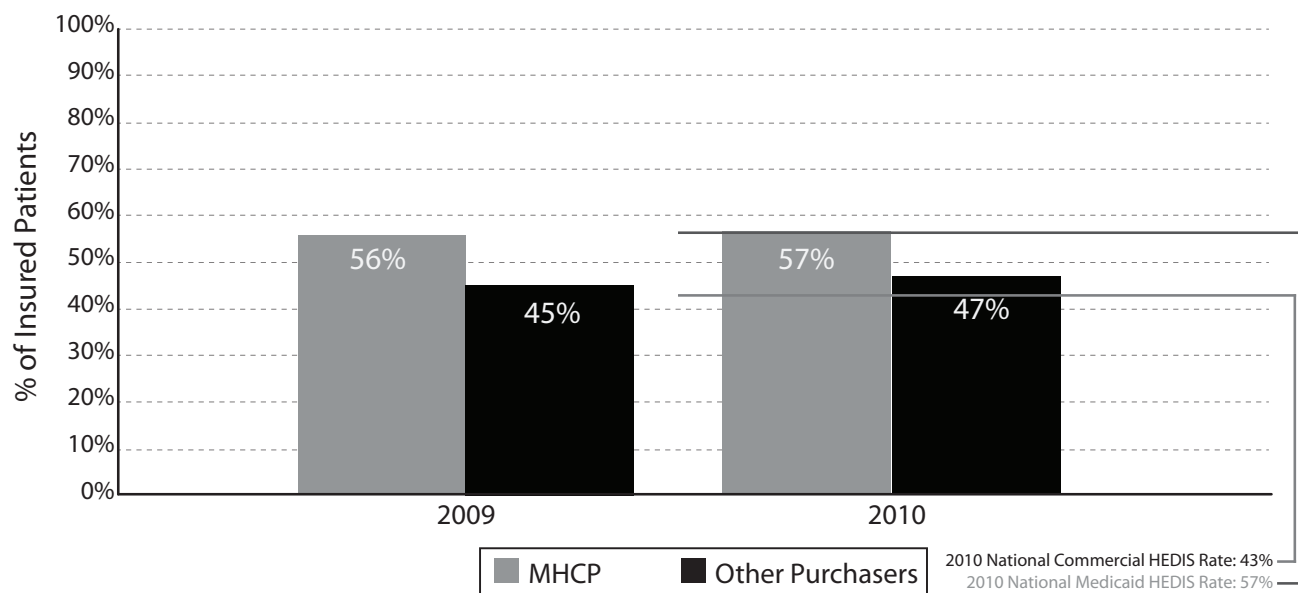
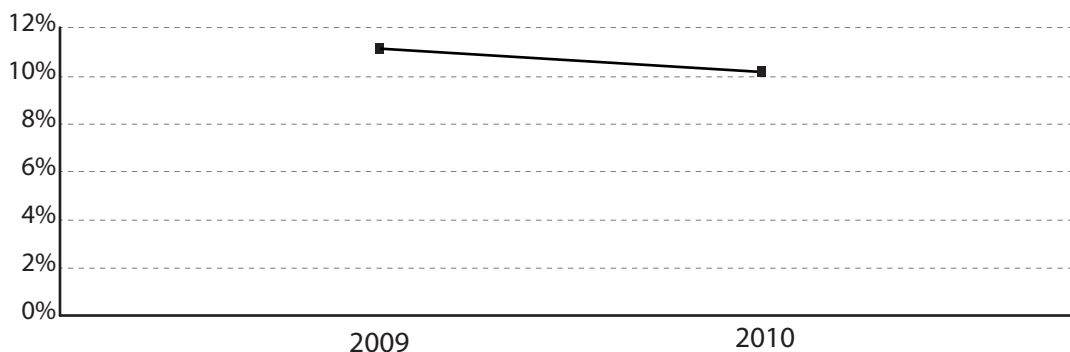


Figure 13.2 focuses on the gaps between purchasers over time. For the Chlamydia Screening in Women measure, the gap has remained relatively stable between report years 2009 and 2010.

Figure 13.2 Chlamydia Screening: Statewide Gaps between MHCP patients and patients Enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



Medical Group Performance Highlights

Chart 13 provides the MHCP Chlamydia Screening rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 71 medical groups are reportable for this measure because they had at least 30 patients that met the measure specifications— enough patients to ensure a reasonable level of confidence in the reported rate. These 71 medical groups account for 12,129 of the 14,258 MHCP patients (85 percent) who are eligible for this measure statewide. The 71 reportable medical groups account for 29 percent of medical groups providing care to MHCP patients in Minnesota who have been identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **Hennepin Faculty Associates & HCMC Clinics** and **NorthPoint Health and Wellness Center**, achieved best practice with 83 percent of their MHCP patients, while the least successful, **Wadena Medical Center**, achieved it with only 17 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

Chart 13: Chlamydia Screening Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)

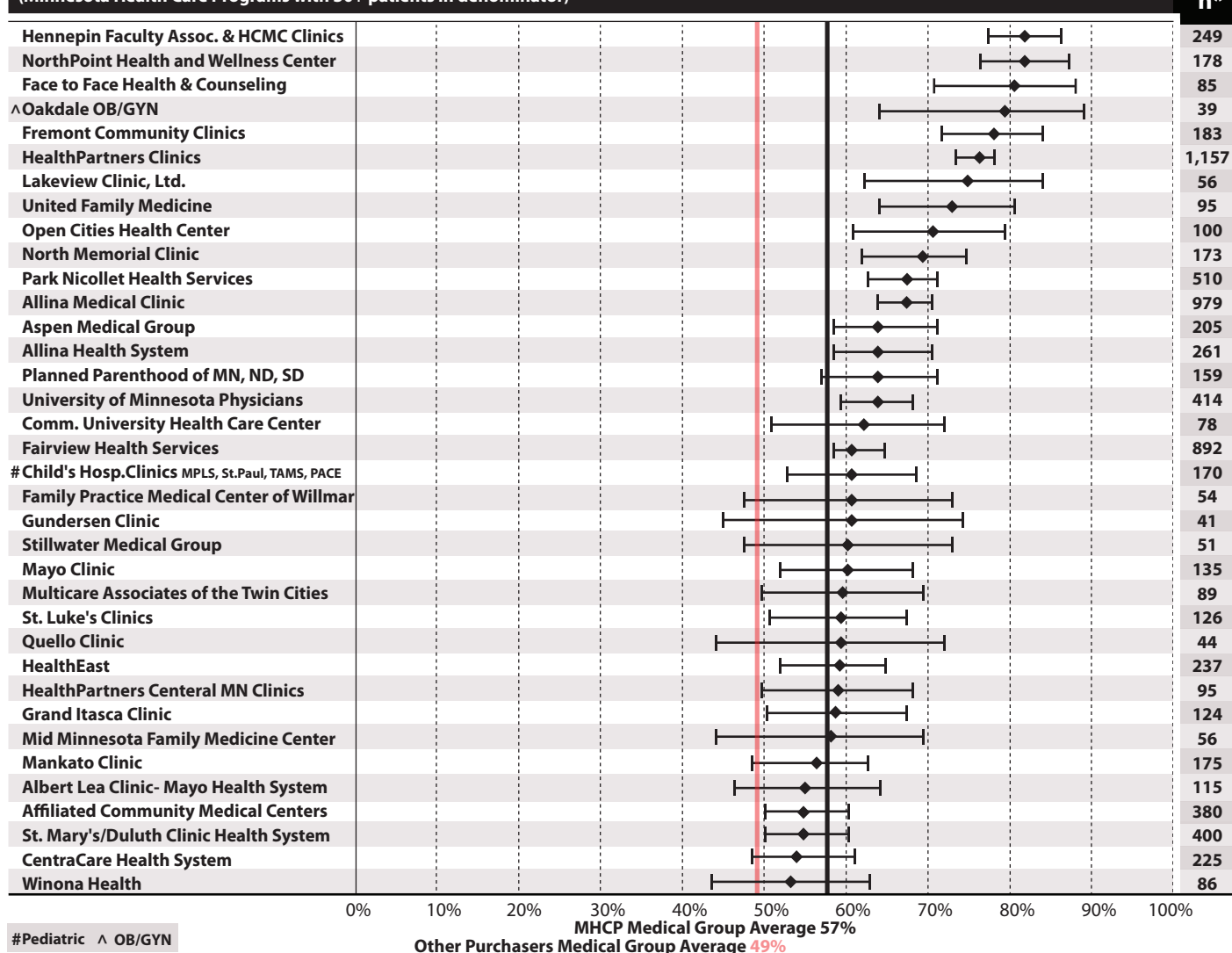
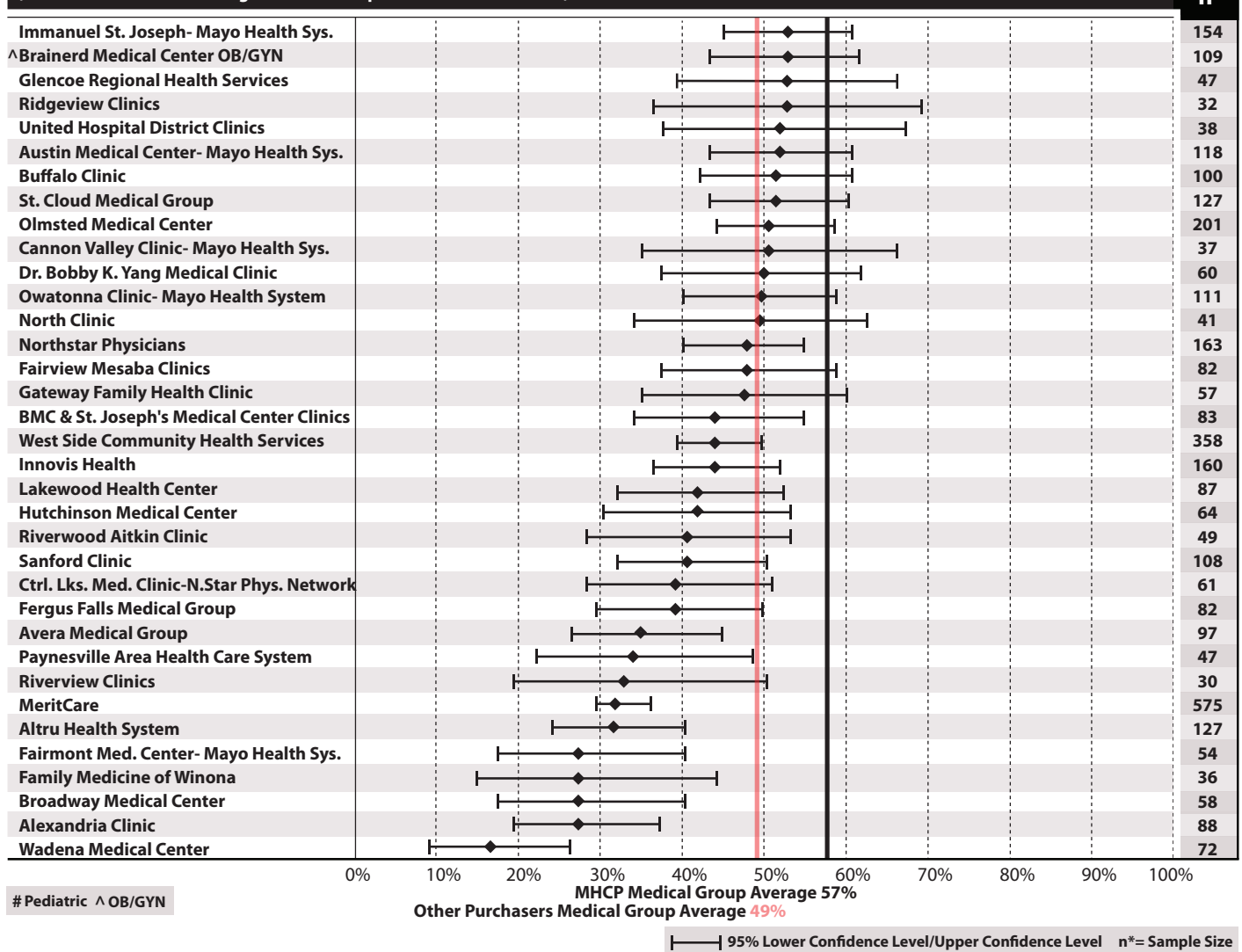


Chart 13: Chlamydia Screening Rates by Medical Group

(Minnesota Health Care Programs with 30+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Hennepin Faculty Associates & HCMC Clinics and **NorthPoint Health and Wellness Center** had the highest **Chlamydia Screening** rate for MHCP patients, at 83 percent. Sixteen medical groups had rates and confidence intervals that were fully above the medical group average of 58 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Hennepin Faculty Associates & HCMC Clinics
- NorthPoint Health and Wellness Center
- Face to Face Health & Counseling
- Oakdale OB/GYN
- Fremont Community Clinics
- HealthPartners Clinics
- Lakeview Clinic, Ltd.
- United Family Medicine
- Open Cities Health Center
- North Memorial Clinic
- Park Nicollet Health Services
- Allina Medical Clinic
- Aspen Medical Group
- Allina Health System
- University of Minnesota Physicians
- Fairview Health Services

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Chlamydia Screening was made by **Lakewood Health Center**, which achieved greater than a 27 percentage point increase in their MHCP patients.

Medical Group Performance Over Time (2008-2010)

Not applicable due to changes in the measurement specifications.

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"Staying Healthy" measures

Childhood Immunization Status - Combo 3

This measures the percentage of children two years of age who had the following vaccines by their second birthday:

- Four DTaP/DT
- Three IPV
- One MMR
- Two H influenza type B
- Three Hepatitis B
- One VZV (chicken pox)
- Four pneumococcal conjugate

The data for this measure are collected from health plan claims, the Minnesota Immunization Information Connection registry (MIIC) and medical record review (See Glossary).

MHCP patients and patients enrolled with Other Purchasers have similar rates of Childhood Immunizations. The MHCP statewide rate for Childhood Immunizations was 75 percent; the rate for Other Purchasers was 77 percent. Table 14 displays these statewide rates.

Table 14: Statewide Rates* for Childhood Immunization Status (Combo 3)

Purchasers	Statewide Weighted Rate*	95% CI	Denominator (Patients Sampled)
MHCP	75.4%	74.1% - 76.6%	4,496
Other Purchasers	76.6%	74.9% - 78.2%	2,623

*Statewide Average (above) includes those patients attributed to a medical group AND those who could not be attributed to a medical group.

Figure 14.1 displays the statewide rates over time. The rates for both purchasers have improved since 2006. The Childhood Immunization Status rates for MHCP patients improved between report years 2006 and 2009 and has remained steady in 2010. The rates for patients enrolled with Other Purchasers improved from 2006 to 2008, but has since decreased in 2010.

The figure also includes the 2010 National HEDIS Medicaid and Commercial rates as benchmarks for comparison. The statewide rates for both MHCP patients and patients enrolled with Other Purchasers rates are both above their respective national HEDIS benchmarks.

Figure 13.1: Childhood Immunization Status (Combo 3) Statewide Rates over Time

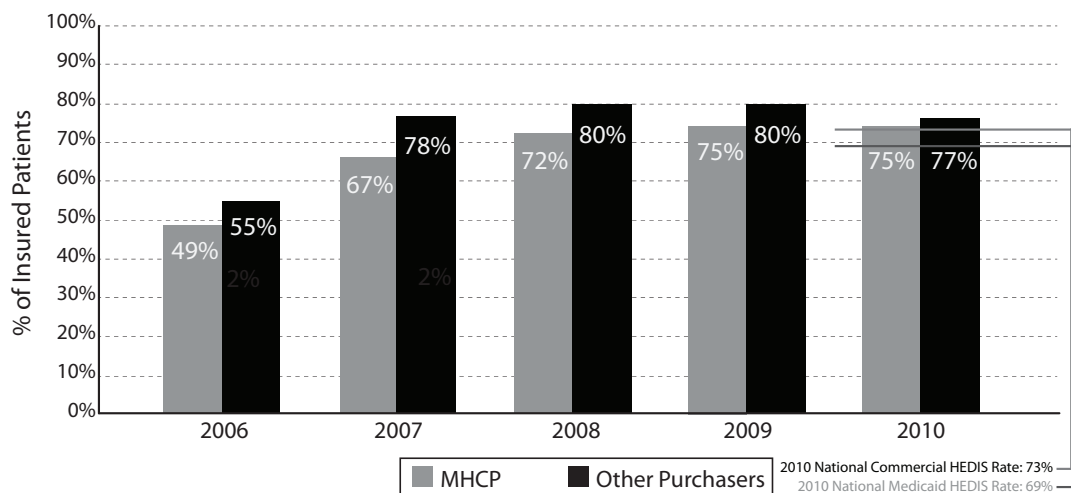
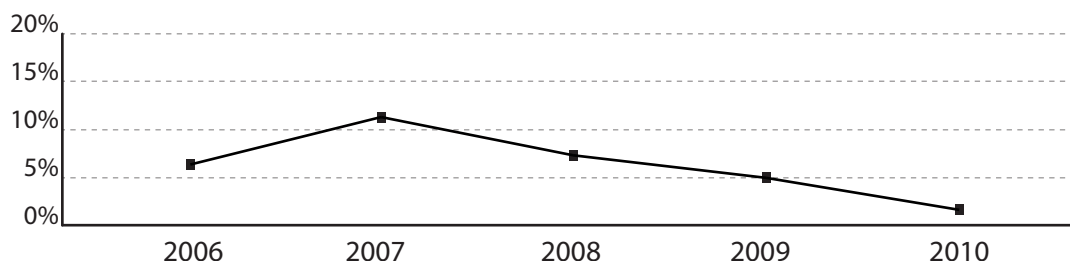


Figure 14.2 focuses on the gaps between purchasers over time. For the Childhood Immunization Status measure, the gap increased substantially from 2006 to 2007, but the gap has continuously decreased from year to year since then.

Figure 14.2 Childhood Immunization Status (Combo 3): Statewide Gaps between MHCP patients and patients enrolled with Other Purchasers by Year (Other Purchasers - MHCP)



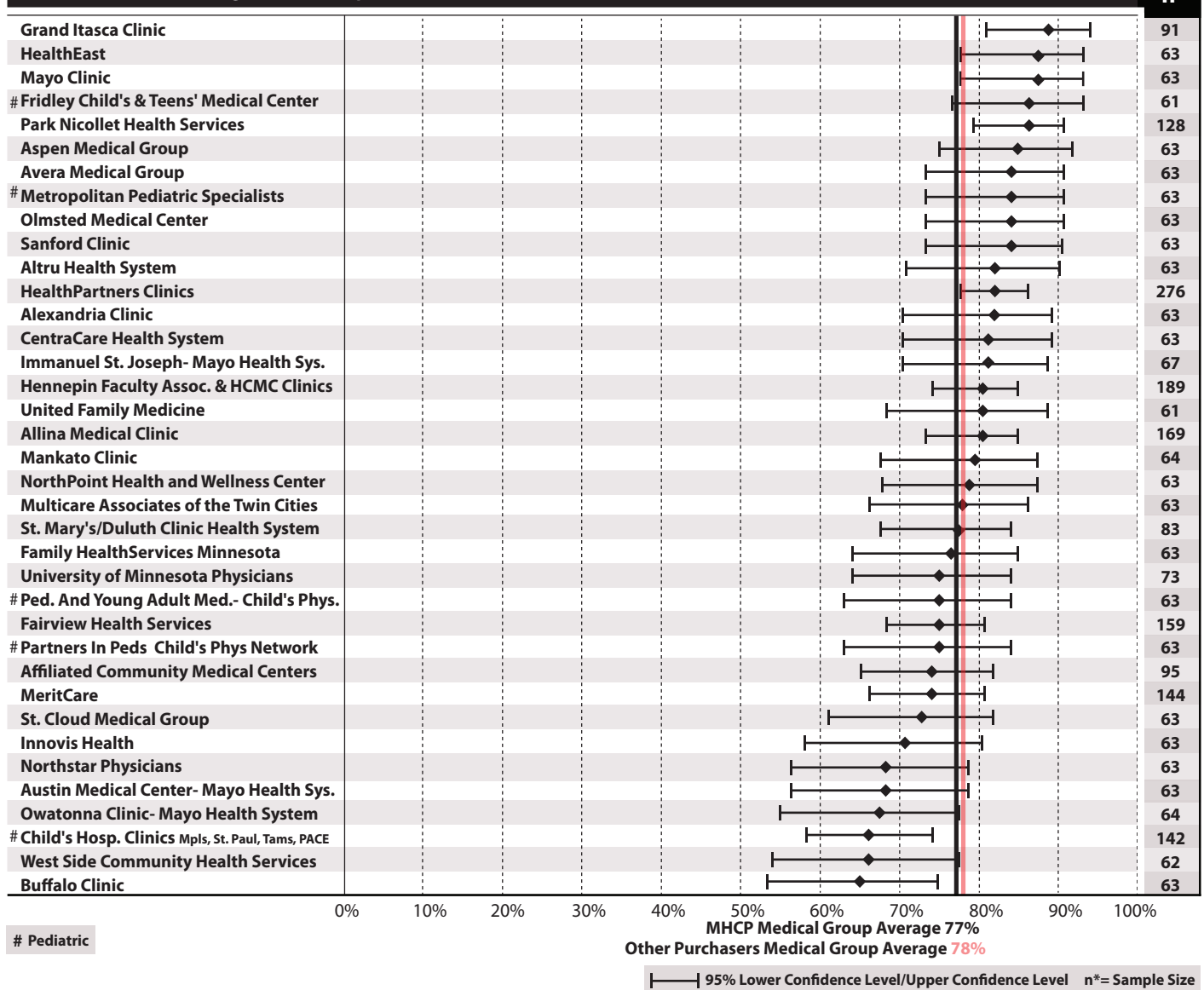
Medical Group Performance Highlights

Chart 14 provides the MHCP Childhood Immunization rate by medical group from highest to lowest. It also includes the average medical group rates for MHCP and Other Purchasers. For the 2010 report year, 37 medical groups are reportable for this measure because they had at least 60 patients in their sample – a large enough sample to ensure a reasonable level of confidence in the reported rate. These 37 medical groups account for 3,188 of the 4,496 MHCP patients (71 percent) who are eligible for this measure statewide. The 37 reportable medical groups account for 18 percent of medical groups providing care to MHCP patients in Minnesota identified through health plan claims data for this measure.

There was wide variation in the degree to which medical groups were successful in achieving this health care best practice with their patients enrolled in MHCP. The most successful medical group, **Grand Itasca Clinic**, achieved best practice with 89 percent of their MHCP patients, while the least successful, **Buffalo Clinic**, achieved it with only 65 percent of the MHCP patients. A detailed table of medical group rates can be found in Appendix 3.

Chart 14: Childhood Immunization Status Rates by Medical Group

(Minnesota Health Care Programs with 60+ patients in denominator)



Performance Highlights - Medical Group Level Results

Medical Groups with Above Average MHCP Rates in Report Year 2010

Grand Itasca Clinic had the highest **Childhood Immunization Status** rate for MHCP patients, at 89 percent. Five medical groups had rates and confidence intervals that were fully above the medical group average of 58 percent for patients enrolled in MHCP. These medical groups are listed below in order of high to low performance.

- Grand Itasca Clinic
- HealthEast
- Mayo Clinic
- Park Nicollet Health Services
- HealthPartners Clinics

Biggest Improvement from 2009-2010

The biggest improvement since report year 2009 in Childhood Immunization Status was made by **University of Minnesota Physicians**, which achieved greater than an 18 percentage point increase in their MHCP patients.

Performance Highlights - Medical Group Level Results

Medical Group Performance Over Time (2008-2010)

We reviewed the data to identify patterns of medical group performance in those medical groups that have three years of data beginning in 2008. We looked for patterns of consistent high performance, consistent improvement, consistent decreases, and relative stability. The results are summarized below and listed in alphabetical order.

The following two medical groups achieved consistently high performance and above average rates over the past three years for Childhood Immunization Status:

- HealthPartners Clinics
- Park Nicollet Health Services

Seven medical groups showed consistent improvement over three years:

- Aspen Medical Group
- Avera Medical Group
- Family HealthServices Minnesota
- HealthEast
- Mayo Clinic
- Metropolitan Pediatric Specialists
- Olmsted Medical Center

One medical group showed consistent decreases over three years:

- Affiliated Community Medical Centers

Two medical groups had rates that were relatively stable over three years:

- Allina Medical Clinic
- HealthPartners Clinics

Eight medical groups did not have a discernable pattern.

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An Examination of Statewide MHCP Performance Rates by Race and Ethnicity

A large body of literature documents disparities in the delivery of health care in the United States based on socioeconomic status, race and ethnicity; yet most existing performance measures have not been able to be reported by race and ethnicity. Race and ethnicity remain significant predictors of the quality of health care received even when accounting for socioeconomic conditions (IOM, 2003).

In Minnesota, results from our Disparities Reports have shown that patients of lower socioeconomic status have different rates of care even when health care coverage is available, as is the case for patients enrolled in MHCP. These disparities are the result of complex issues, one of which may be race and/or ethnicity. Researchers agree that collecting and using data on the race and ethnicity of a population may build a foundation for understanding and reducing disparities (AHIP, 2006; Lavizzo-Mourey, 2008). For some measures, data now allow us to examine performance rate differences by race and ethnicity at a statewide level within the MHCP patient population, many of whom have lower socioeconomic status.

Methods

Statewide comparisons by race and ethnicity were conducted on the MHCP patient population utilizing enrollment data supplied by the Minnesota Department of Human Services (DHS). DHS sends monthly enrollment data, which contain race and ethnicity data for MHCP patients, to health plans that contract with DHS to provide health care services to MHCP patients. This information is self-reported at the time individuals/patients enroll in MHCP. Each patient was placed in one of the following Race and Hispanic Ethnicity categories:

- American Indian or Alaskan Native
- Asian/Pacific Islander/Native Hawaiian
- Black/African American
- Hispanic
- Multi-racial
- Unknown
- White

These categories generally comply with the Office of Management and Budget directive, although Pacific Islander/Native Hawaiian is combined with Asian and a Multi-racial group is calculated. The Pacific Islander/Native Hawaiian group is combined with the Asian group because there is a small number of patients identified in the Pacific Islander/Native Hawaiian category for all reported measures. Patients are able to declare more than one race when they enroll in MHCP, allowing MNCPM to calculate rates for a multi-racial category.

It was not possible to report Optimal Diabetes Care, Optimal Vascular Care, and Depression Remission at Six Months measures by race and ethnicity because these specific data elements are not yet submitted by all clinics.

Data are presented for racial and ethnic categories only if there are at least 30 patients in the category.

(continued on next page.)

An Examination of Statewide MHCP Performance Rates by Race and Ethnicity

Race and Ethnicity Descriptions

American Indian or Alaskan Native: A person having origins in any of the original peoples of North and South America (including Central America), and who maintains tribal affiliation or community attachment.

Asian/Pacific Islander/Native Hawaiian: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent, or a person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

Black/African American: A person having origins in any of the black racial groups of Africa. Terms such as “Haitian” or “Negro” can be used in addition to “Black or African American”.

Hispanic or Latino: A person of Cuban, Mexican, Puerto Rican, South or Central American or other Spanish culture or origin. The term “Spanish origin” can be used in addition to “Hispanic or Latino”.

Multi-racial: A person self-identifying with more than one of the following races: American Indian or Alaskan Native, Asian/Pacific Islander/Native Hawaiian, Black/African American, and White. People in this category did not select a catchall “multi-racial” or “more than one race” category.

White: A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

Controlling High Blood Pressure

Figure 15.1 shows Controlling High Blood Pressure rates by race. The White racial group has the highest rate of controlling high blood pressure compared to other known racial groups. It is the only known racial group with a performance rate that is significantly above the statewide MHCP rate (65 percent). The Black/African American racial group has a performance rate significantly below the statewide MHCP rate. Although the American Indian/ Native Alaskan has a lower rate of controlling high blood pressure than the Black/African American group, they are significantly similar.

Figure 15.1: Controlling High Blood Pressure Statewide Rates by Race

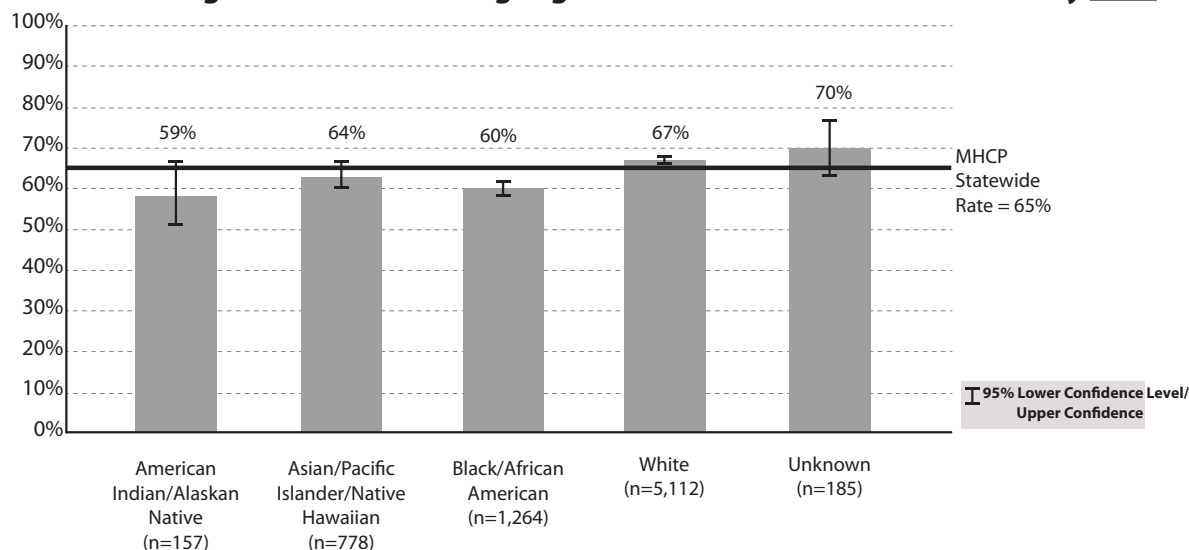
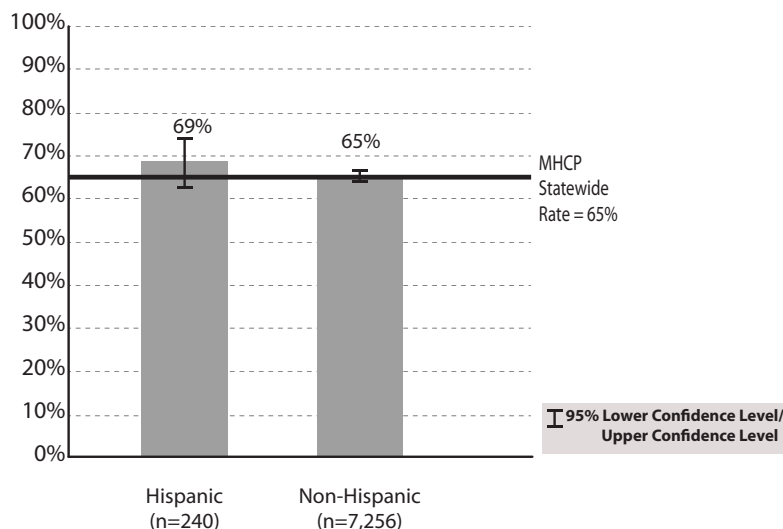


Figure 15.2 shows Controlling High Blood Pressure rates by ethnicity. Hispanics have a higher rate of controlling high blood pressure than Non-Hispanic patients, but this difference is not statistically significant.

Figure 15.2: Controlling High Blood Pressure Statewide Rates by Ethnicity



Appropriate Medications for People with Asthma

Figure 16.1 shows Appropriate Medications for People with Asthma (Ages 5-50) rates by race. Although the Multi-racial group has the highest rate of appropriate medications for people with asthma, Black/African Americans are the only racial group with a rate that is significantly above the statewide MHCP rate (89 percent). Whites are the only racial group with a performance rate that is significantly below the statewide MHCP rate. American Indian/Alaskan Natives have a rate that is significantly lower than the Black/African American racial group, but not significantly different from the other known racial groups.

Figure 16.1: Use of Appropriate Meds for People with Asthma (Ages 5-50) Statewide Rates by Race

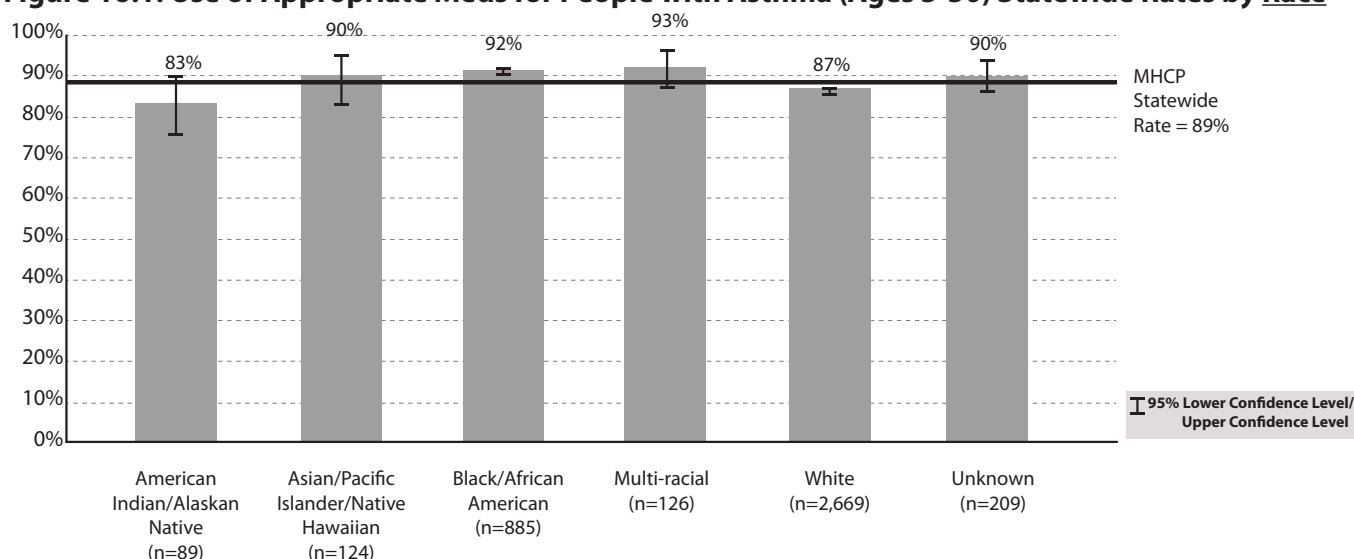
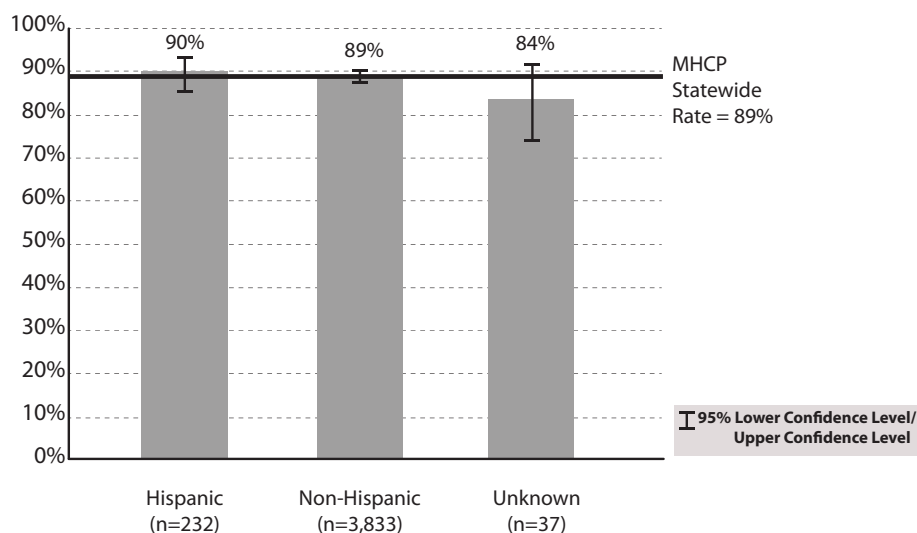


Figure 16.2 shows Appropriate Medications for People with Asthma (Ages 5-50) rates by ethnicity. Hispanic patients have the highest rate of appropriate medications for people with asthma, but the difference is not statistically significant compared to Non-Hispanics and patients with unknown ethnicity. No ethnic group is significantly above or below the statewide rate (89 percent).

Figure 16.2: Use of Appropriate Meds for People with Asthma (Ages 5-50) Statewide Rates by Ethnicity



Appropriate Treatment for Children with Upper Respiratory Infection (URI)

Figure 17.1 shows the rates of Appropriate Treatment for Children with Upper Respiratory Infections by race. The Black/African American and Multi-racial groups have the highest rates of appropriate treatment for URI, and these rates are significantly above the statewide MHCP rate (88 percent). The White racial group has the lowest rate of appropriate treatment for URI, which is significantly lower than all of the other racial groups excluding the Unknown category. It is also the only racial group with a performance rate that is significantly below the statewide MHCP rate.

Figure 17.1: Appropriate Treatment for Children with URI Statewide Rates by Race

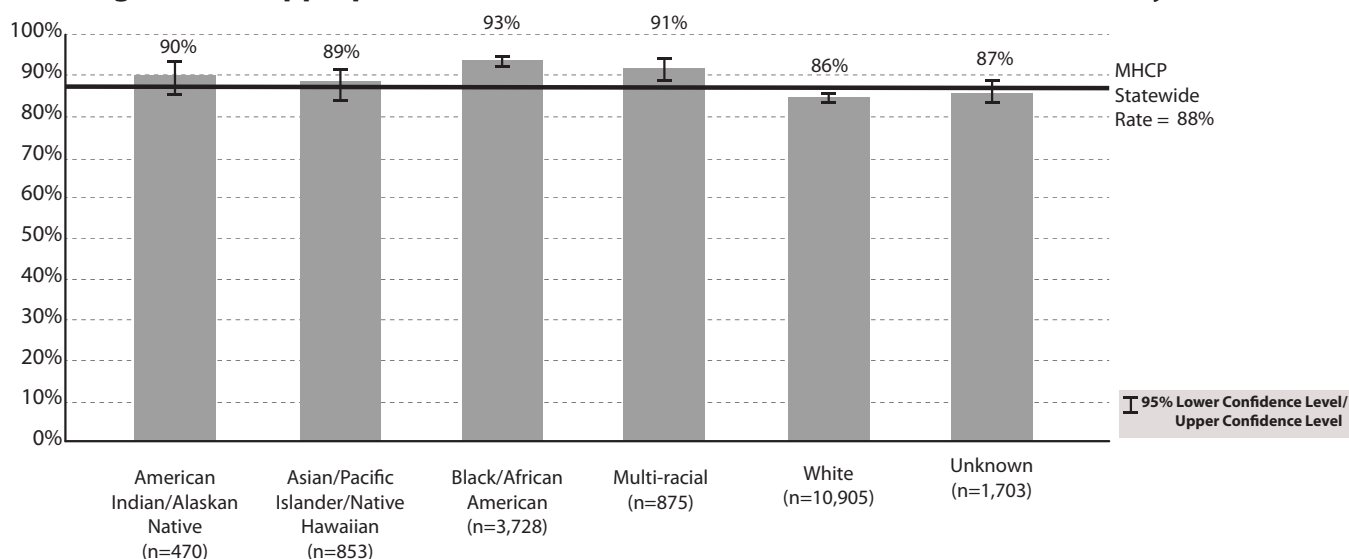
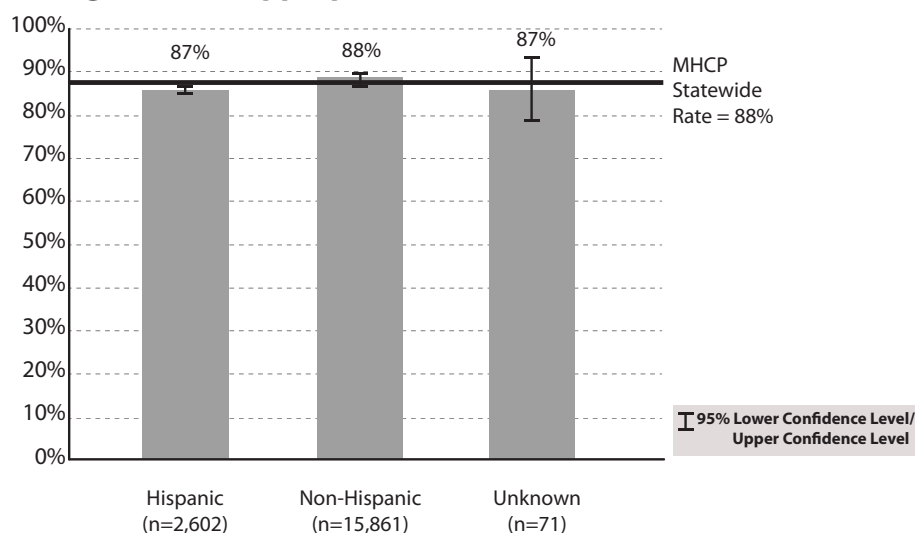


Figure 17.2 shows the rates of Appropriate Treatment for Children with Upper Respiratory Infections by ethnicity. Non-Hispanic patients have the highest rate of appropriate treatment for children with URI. Hispanics have a performance rate significantly below the statewide rate (88 percent). But all groups are statistically similar to one another.

Figure 17.2: Appropriate Treatment for Children with URI Statewide Rates by Ethnicity



Appropriate Testing for Children with Pharyngitis

Figure 18.1 shows the rates of Appropriate Testing for Children with Pharyngitis by race. Black/African Americans have the highest rate of appropriate testing for Pharyngitis. This racial group, along with the American Indian/Alaskan Native, the Multi-racial, and the Unknown categories, has a performance rate that is significantly above the statewide MHCP rate (84 percent). The Asian and White racial groups have performance rates significantly below the statewide MHCP rate, but the Asian group has the lowest rate of testing for Pharyngitis and it is significantly lower than all of the other racial groups.

Figure 18.1: Testing for Children with Pharyngitis Statewide Rates by Race

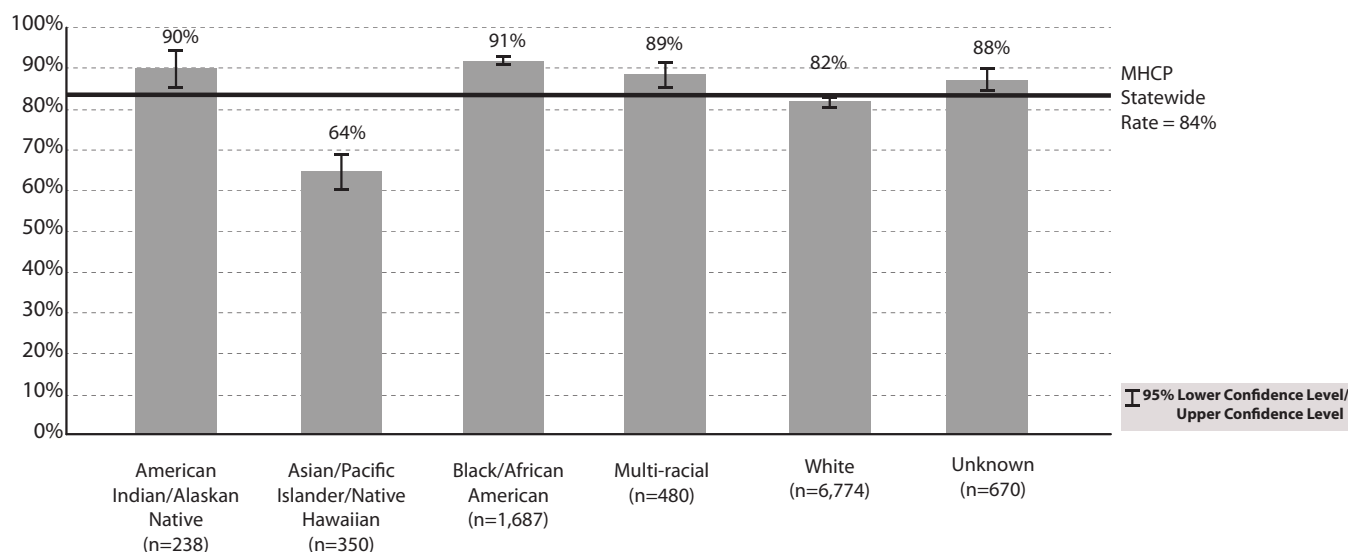
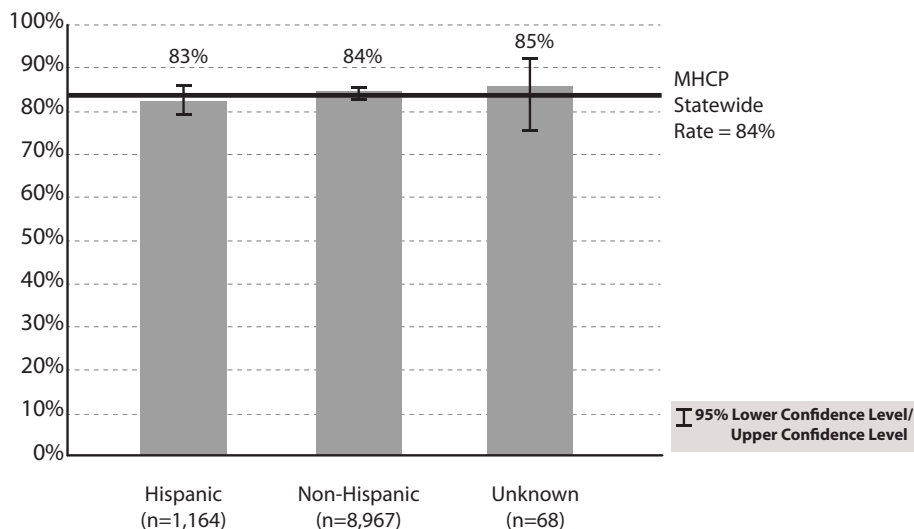


Figure 18.2 shows the rates of Appropriate Testing for Children with Pharyngitis by ethnicity. The Unknown ethnic group has the highest rate of testing for children with pharyngitis, but all groups are significantly similar to each other and to the statewide rate (84 percent).

Figure 18.2: Testing for Children with Pharyngitis Statewide Rates by Ethnicity



Breast Cancer Screening

Figure 19.1 shows the Breast Cancer Screening rates by race. Whites have the highest Breast Cancer Screening rate, except for patients whose race was unknown. The American Indian/Alaskan Native racial group has the lowest Breast Cancer Screening rate and it is significantly lower than all other racial groups. This is the only racial group that has a performance rate significantly below the statewide MHCP rate (63 percent). No racial group has a performance rate that is significantly above the statewide MHCP rate.

Figure 19.1: Breast Cancer Screening Statewide Rates by Race

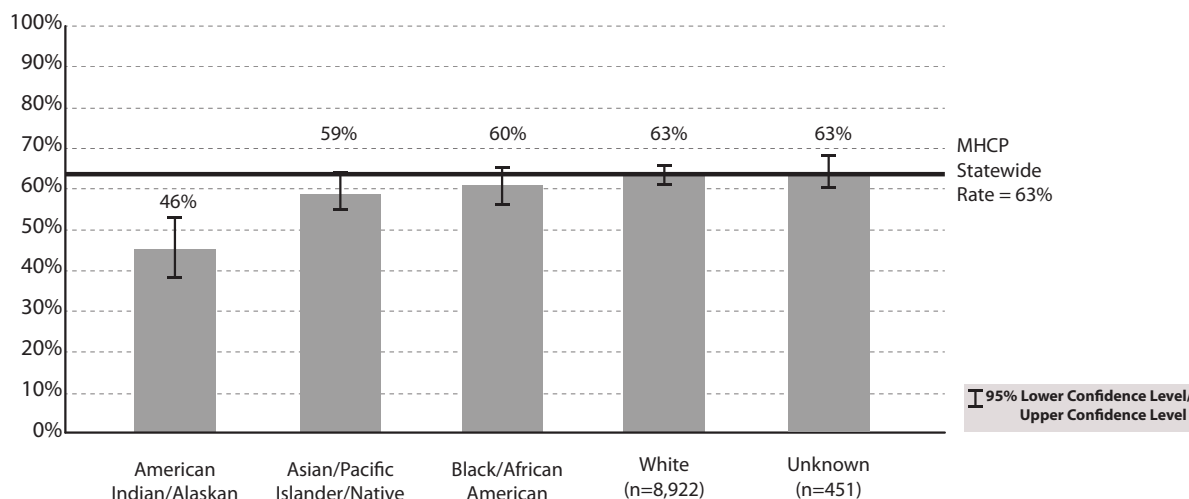
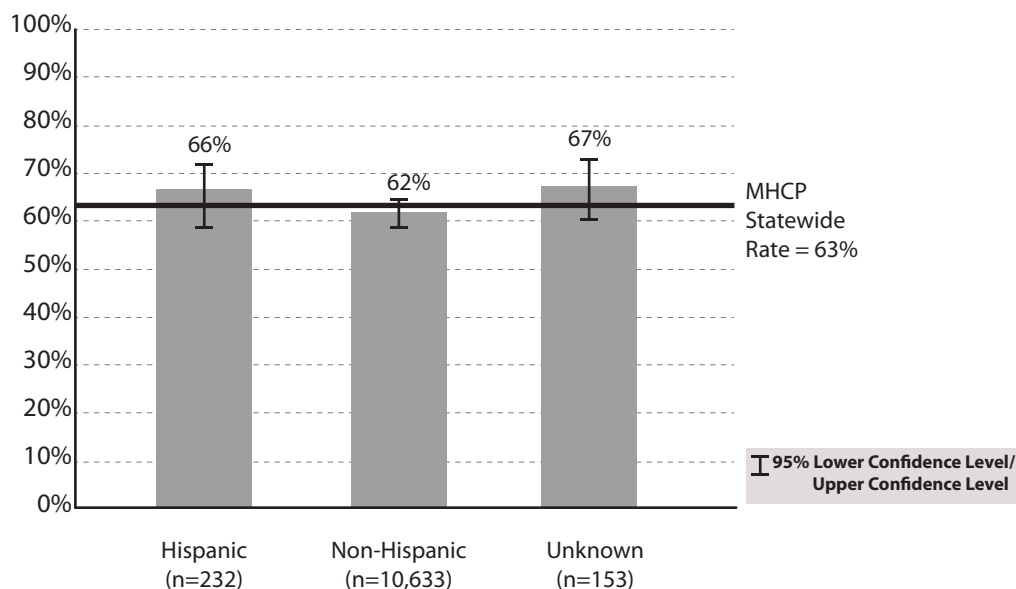


Figure 19.2 shows the rates of Breast Cancer Screening by ethnicity. Although the Unknown ethnic group has the highest rate of Breast Cancer Screening, all ethnic groups are significantly similar to each other and to the statewide rate (63 percent).

Figure 19.2: Breast Cancer Screening Statewide Rates by Ethnicity



Cervical Cancer Screening

Figure 20.1 shows Cervical Cancer Screening rates by race. The Black/African American and Multi-racial groups have the highest Cervical Cancer Screening rates. The Black/African American racial group has a rate that is significantly higher than the Asian, American Indian/Alaskan Native, and White racial groups and it is also the only racial group with a performance rate that is significantly above the statewide MHCP rate (72 percent). The American Indian/Alaskan Native and Asian racial groups have the lowest Cervical Cancer Screening rates and both are significantly lower than the MHCP statewide rate. Although American Indian/Alaskan Native racial group is lower than the Asian racial group, they are not significantly different.

Figure 20.1: Cervical Cancer Statewide Rates by Race

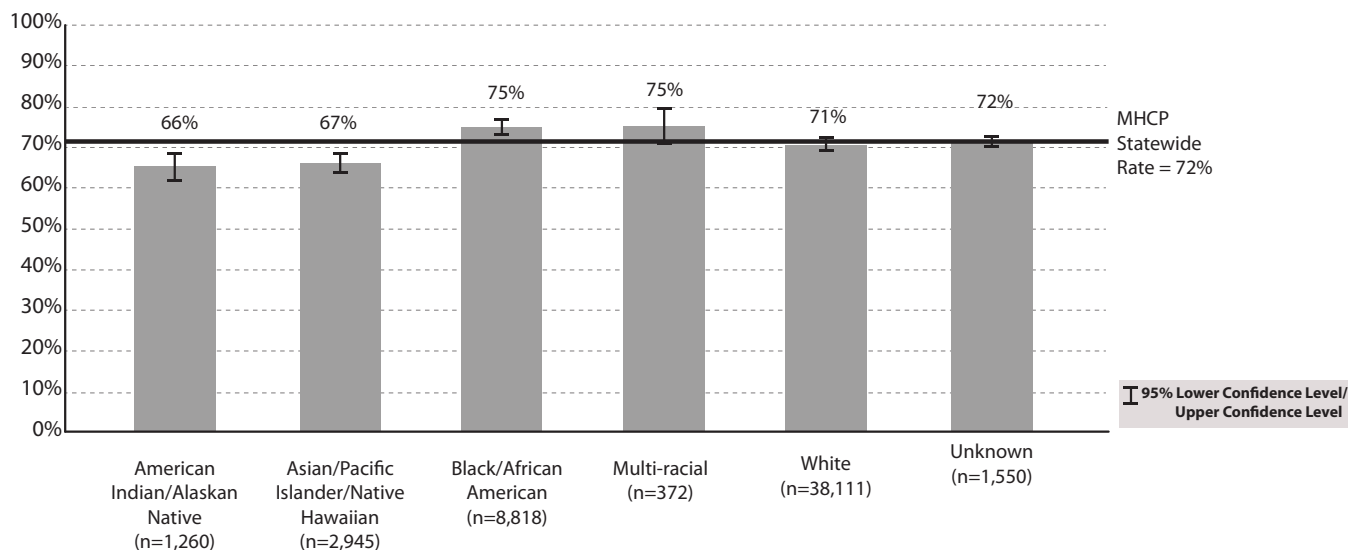
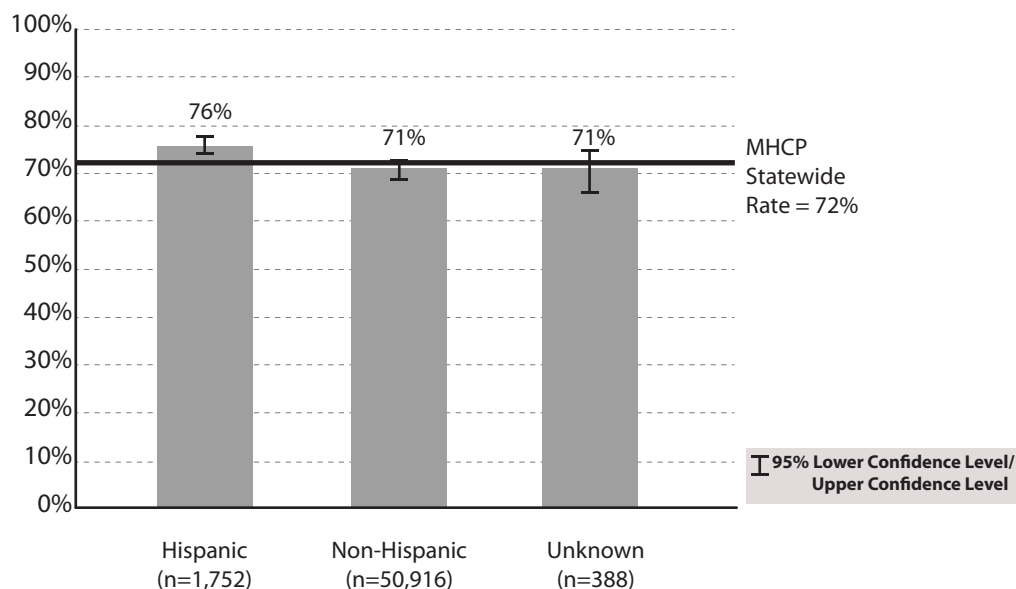


Figure 20.2 shows Cervical Cancer Screening rates by ethnicity. The Hispanic ethnic group has the highest rate of cervical cancer screening and it is significantly above the statewide MHCP rate (72 percent) and significantly different from the Non-Hispanic group. The Non-Hispanic group rate is significantly similar to the MHCP statewide rate.

Figure 20.2: Cervical Cancer Statewide Rates by Ethnicity



Colorectal Cancer Screening

Figure 21.1 shows Colorectal Cancer Screening rates by race. The White racial group has the highest Colorectal Cancer Screening rate compared to the other known racial groups. There are no racial groups with a performance rate that is significantly above the statewide MHCP rate (47 percent). The Asian racial group has the lowest Colorectal Cancer Screening rate and it is also the only racial group with a performance rate that is significantly below the statewide MHCP rate. This rate is significantly lower than the White racial groups, but not significantly different from the Black/African American and American Indian/Alaskan Native racial groups and the Unknown category.

Figure 21.1: Colorectal Cancer Screening Statewide Rates by Race

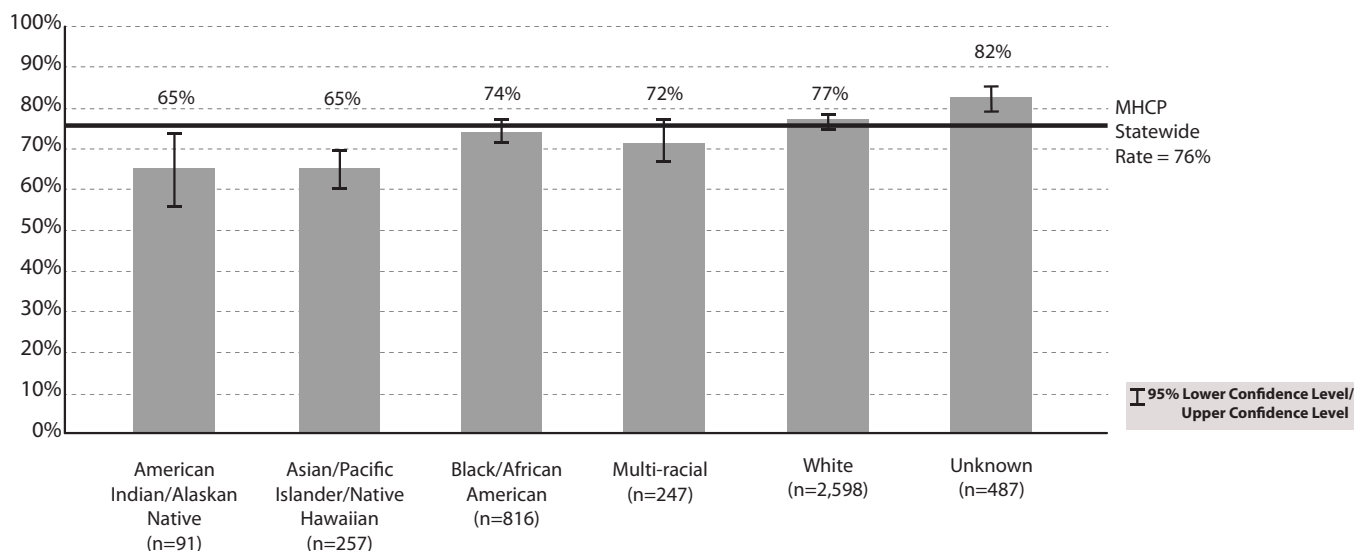
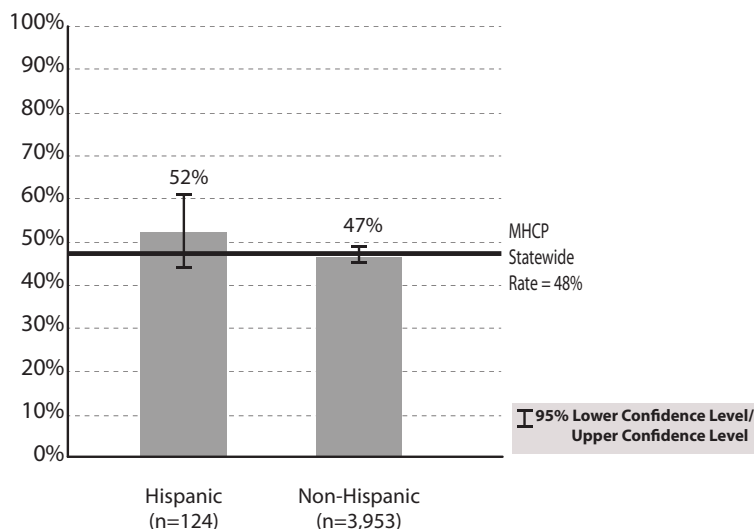


Figure 21.2 shows the Colorectal Cancer Screening rate by ethnicity. The Hispanic group has a higher rate than the Non-Hispanic group, but both are significantly similar to each other and to the MHCP statewide rate (48 percent).

Figure 21.2: Colorectal Cancer Screening Statewide Rates by Ethnicity



Chlamydia Screening in Women

Figure 22.1 shows Chlamydia Screening rates by race. The Black/African American racial group has the highest Chlamydia Screening rate, but it is not significantly different than the Multi-racial group. Both of these racial groups have performance rates that are significantly above the statewide MHCP rate (57 percent). The Asian racial group has the lowest Chlamydia Screening rate compared to the other known racial groups, but both the Asian and White racial groups have rates that are significantly lower than the performance rates of the Black/African American, American Indian/Alaskan Native, Multi-racial, and Unknown groups. These two racial groups are also the only racial groups with performance rates that are significantly below the statewide MHCP rate.

Figure 22.1: Chlamydia Screening Statewide Rates by Race

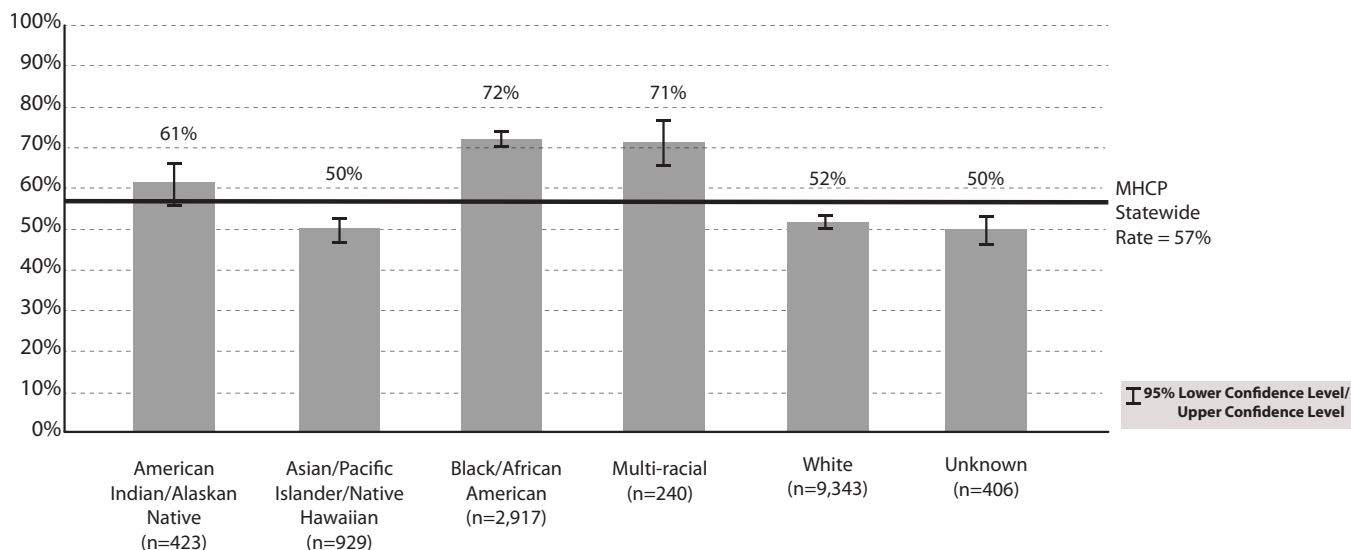
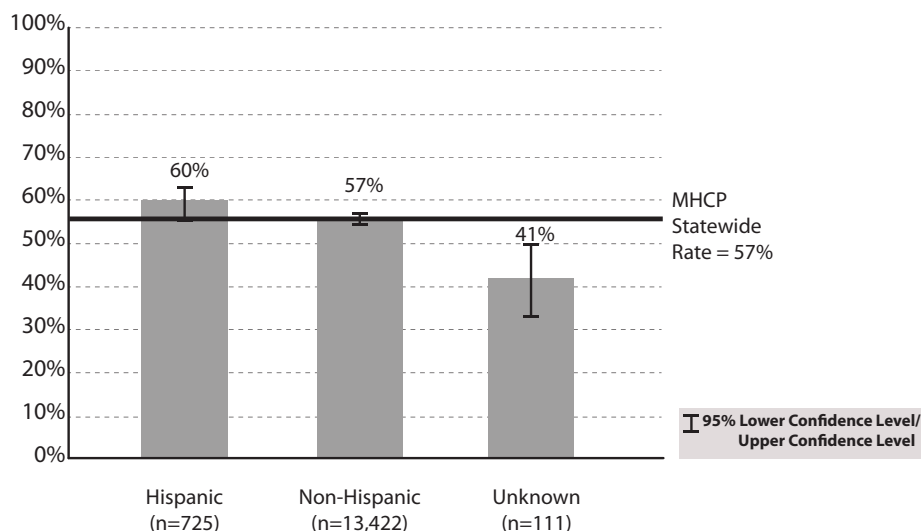


Figure 22.2 shows Chlamydia Screening rates by ethnicity. Hispanics have the highest rate of Chlamydia Screening, but it is significantly similar to the Non-Hispanic group and the MHCP statewide rate (57 percent). The Unknown ethnic group has statistically significant lower rate than the Hispanic, Non-Hispanic group and the statewide MHCP rate.

Figure 22.2: Chlamydia Screening Statewide Rates by Ethnicity



Childhood Immunization Status (Combo 3)

Figure 23.1 shows Childhood Immunization Status status by race. Of the known racial groups, Whites have the highest rate of childhood immunizations, but it is statistically similar to the Black/African American and Multi-racial groups. The Unknown racial group is the only group with a performance rate that is significantly above the statewide MHCP rate (76 percent). The Asian group has the lowest Childhood Immunization Status rate, but is statistically similar to the American Indian/Alaskan Native group. Both of these two racial groups have performance rates that are significantly below the statewide MHCP rate and their rates are significantly lower than the White and Unknown racial groups. The Asian racial group also has a rate that is significantly lower than the Black/African American racial group.

Figure 23.1: Childhood Immunization Status Statewide Rates by Race

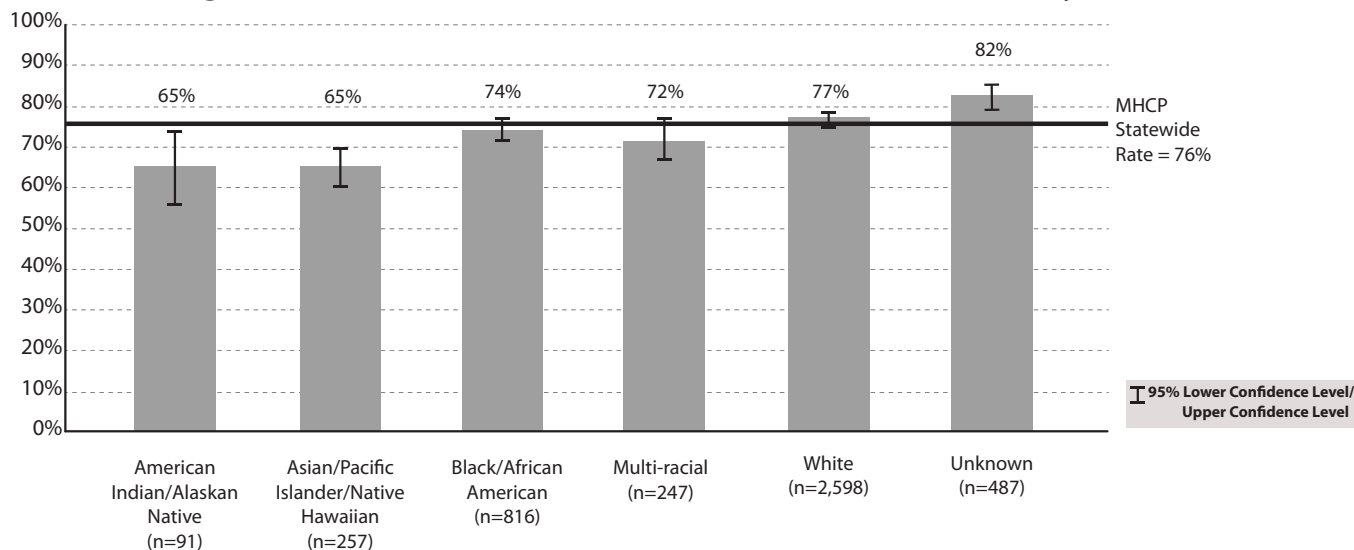
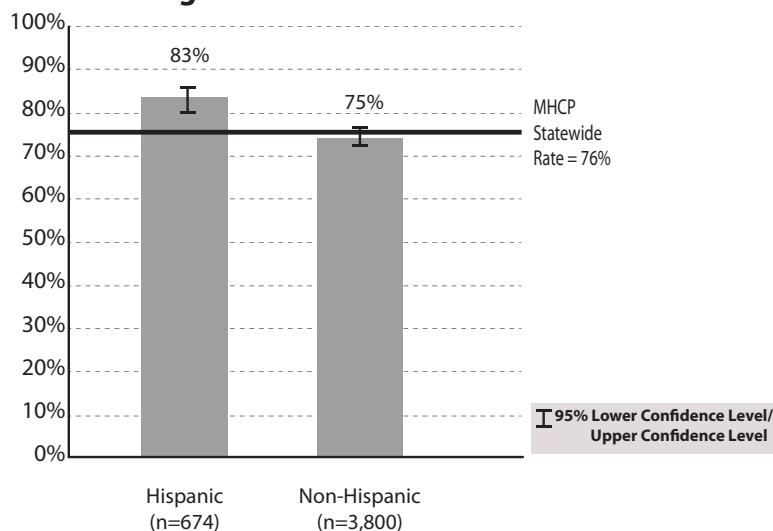


Figure 23.2 shows Childhood Immunization Status rates by ethnicity. Hispanic patients have a higher rate of childhood immunization status compared to Non-Hispanic patients. The Hispanic ethnic group has a performance rate that is significantly above the statewide MHCP rate (76 percent). The Non-Hispanic group is significantly similar to the MHCP statewide rate.

Figure 23.2: Childhood Immunization Status Statewide Rates by Ethnicity



Summary of Findings by Race

The results in Table 15 show that differences exist between racial groups within the MHCP patient population for all measures. For each measure, the rates for each racial group are indicated as being either above or below the MHCP average, or similar to it. Statistical significance was determined at a value of ($p < 0.05$).

Table 15: Summary of Findings by Racial Group

Measures/Racial Group	American Indian/ Alaskan Native	Asian/ Pacific Islander/ Native Hawaiian	Black/African American	Multi-Racial	White	Unknown
Controlling High Blood Pressure			↓	N/A	↑	
Use of Appropriate Medications for People with Asthma			↑		↓	
Appropriate Treatment for Children with Upper Respiratory Infection			↑		↓	
Appropriate Testing for Children with Pharyngitis	↑	↓	↑	↑	↓	↑
Breast Cancer Screening	↓			N/A		
Cervical Cancer Screening	↓	↓	↑			
Colorectal Cancer Screening		↓		N/A		
Chlamydia Screening in Women		↓	↑	↑	↓	
Childhood Immunization Status	↓	↓				

↑ = Above MHCP Average

↓ = Below MHCP Average

Blank = Similar to MHCP Average

N/A = Not Applicable; Too few patients to be reported

Summary of Findings by Race

American Indian/Alaskan Native

The American Indian/Alaskan Native racial group did not have the highest rate of performance for any measure, but instead had the lowest rate for four measures (Controlling High Blood Pressure, Appropriate Medications for People with Asthma, Breast Cancer Screening, and Cervical Cancer Screening).

In general, while there are rate differences between the American Indian/Alaskan Native racial group and other racial groups, for most measures this performance rate difference between this group and other racial groups is not significant. There are no measures where the American Indian/Alaskan Native racial group's rate is significantly higher than all other racial groups' rate. The only measure where the American Indian/Alaskan Native racial group's rate is significantly lower than all other racial groups' rate is for the Breast Cancer Screening measure. For the Testing for Children with Pharyngitis measure, this racial group had a performance rate significantly higher than the MHCP statewide average. For three measures (Breast Cancer Screening, Cervical Cancer Screening, and Childhood Immunization) this racial group had performance rates significantly lower than the statewide average.

Asian/Pacific Islander/Native Hawaiian

There were no measures where the Asian/Pacific Islander/Native Hawaiian racial group had the highest rate. For four measures they had the lowest rate (Testing for Children with Pharyngitis, Colorectal Cancer Screening, Chlamydia Screening, Childhood Immunization).

In general, while there are rate differences between the Asian/Pacific Islander/Native Hawaiian racial group and other racial groups, for most measures this performance rate difference between this group and other racial groups is not significant. There were no measures where the Asian/Pacific Islander/Native Hawaiian racial group's rate is significantly higher or lower than all other racial groups' rate. For five measures the Asian/Pacific Islander/Native Hawaiian racial group has a performance rate significantly lower than the MHCP statewide rate (Testing for Children with Pharyngitis, Cervical Cancer Screening, Colorectal Cancer Screening, Chlamydia Screening, and Childhood Immunization).

Black/African American

There are four measures where the Black/African American racial group had the highest rates (Treatment for Children with Upper Respiratory Infection, Testing for Children with Pharyngitis, Cervical Cancer Screening, and Chlamydia Screening). There were no measures where the Black/African American racial group had the lowest rate.

In general, while there are rate differences between the Black/African American group and other racial groups, for most measures this performance rate difference between this group and other racial groups is not significant. For six measures (Appropriate Medications for People with Asthma, Appropriate Treatment for Children with URI, Testing for Children with Pharyngitis, Cervical Cancer Screening, and Chlamydia Screening), the Black/African American racial group has a performance rate significantly higher than the MHCP statewide average; for one measure (Controlling High Blood Pressure) the group has a significantly lower performance rate than the MHCP statewide average.

Multi-racial

Due to minimum reporting thresholds, rates for this category could not be reported for Controlling High Blood Pressure, Breast Cancer Screening, and Colorectal Cancer Screening. The Multi-racial group had the highest performance rate for Appropriate Medications for People with Asthma and Cervical Cancer Screening. It did not have the lowest rate for any measure.

In general, while there are rate differences between the Multi-racial group and other racial groups, for all measures this performance rate difference between this group and other racial groups is not significant. There are no measures where the Multi-racial group's rate is significantly higher or lower than all other racial groups' rate. There are two measures-Testing for Children for Pharyngitis and Chlamydia Screening- where the Multi-racial group had a performance rate significantly higher than the statewide MHCP rate. The Multi-racial group did not have a significantly lower rate compared to the statewide rate for any measures.

Summary of Findings by Race

White

For four measures, the White racial group had the highest rates compared to other known racial groups (Controlling High Blood Pressure, Breast Cancer Screening, Colorectal Cancer Screening, Childhood Immunization); and for one measure- Treatment for Children with URI- this racial group had the lowest rate. For four measures (Use of Appropriate Medications for People with Asthma, Appropriate Treatment for Children with URI, Appropriate Testing for Children with Pharyngitis, and Chlamydia Screening in Women) the White racial group had a performance rate that fell significantly below the MHCP statewide average.

In general, while there are rate differences between the White racial group and other racial groups, for most measures this performance rate difference between is not significant. The only measure for which the White racial group is significantly lower than all other known racial groups is Appropriate Treatment for Children with URI.

Unknown

For two measures (Controlling High Blood Pressure and Childhood Immunization), the Unknown category had the highest rate. There were no measures where the Unknown category had the lowest rate. For three measures, the rates for the Unknown category were significantly above the MHCP statewide average (Controlling High Blood Pressure, Appropriate Testing for Children with Pharyngitis, and Childhood Immunization). In general, the rate differences between the Unknown racial group and other racial groups were not significant.

Limitations related to Race Data

This report includes statewide comparisons by racial group. A minimum threshold of 30 MHCP patients was used for reporting statewide rates by racial group. Minimum reporting thresholds, necessary for comparisons by race within a medical group, were met only by an extremely small number of medical groups so this report does not report medical group rates by race.

To be included in a HEDIS measure, a patient must meet specified continuous enrollment criteria. Continuous enrollment in a health plan defines a sufficient timeframe during which a health care service could be performed. A shorter enrollment period makes it less likely that a health care service will be rendered. MHCP patients often have multiple interruptions in enrollment due to events such as the loss of MHCP eligibility. Therefore, MHCP patients who are represented in HEDIS measures are those with continuous enrollment so the measure may not reflect the experience of a substantial proportion of MHCP patients. When HEDIS performance rates are further calculated by race, as reported above for the MHCP population, the continuous enrollment criteria may also impact some racial groups more than others. It will be important for medical groups and clinics to be aware of the impact that continuous enrollment has on HEDIS measures in general and for each racial group. It would not be appropriate to assume that the MHCP rate for each HEDIS measure applies equally to each racial group.

Race information is self-reported by individuals when they enroll in MHCP. The Minnesota Department of Human Services transmits this data monthly to the health plans that serve this population of patients. Patients are able to declare more than one race on the MHCP enrollment form. This was the first year that performance rates could be calculated for a separate multi-racial group.

Summary of Findings by Ethnicity

The results in Table 16 show that differences exist between ethnic groups within the MHCP patient population for some measures. For each measure, the rates for each ethnic group are indicated as being either above or below the MHCP average, or similar to it. Statistical significance was determined at a value of ($p < 0.05$). In general, the ethnicity categories were similar to one another and to the statewide MHCP average.

Table 16: Summary of Findings by Ethnic Group

Measures/Ethnic Group	Hispanic	Non-Hispanic	Unknown
Controlling High Blood Pressure			N/A
Use of Appropriate Medications for People with Asthma			
Appropriate Treatment for Children with Upper Respiratory Infection	↓		
Appropriate Testing for Children with Pharyngitis			
Breast Cancer Screening			
Cervical Cancer Screening	↑		
Colorectal Cancer Screening			N/A
Chlamydia Screening			↓
Childhood Immunization Status	↑		N/A

↑ = Above MHCP Average

↓ = Below MHCP Average

Blank = Similar to MHCP Average

N/A = Not Applicable; Too few patients to be reported

Hispanic

For six measures (Controlling High Blood Pressure, Appropriate Medications for People with Asthma, Cervical Cancer Screening, Chlamydia Screening, Colorectal Cancer Screening, and Childhood Immunization), the Hispanic ethnic group had the highest rate. There were two measures where the category had the lowest rate (Treatment for Children with URI and Testing for Children with Pharyngitis). For two measures, the rates for the Hispanic category were significantly above the MHCP statewide average (Cervical Cancer Screening and Childhood Immunization). In general, the rate differences between the Hispanic group and other groups were not significant.

Non-Hispanic

For one measure (Treatment for Children with URI), the Non-Hispanic category had the highest rate. There were four measures where the category had the lowest rate (Controlling High Blood Pressure, Breast Cancer Screening, Colorectal Cancer Screening, and Childhood Immunization Status). There were no measures where the rates for the Non-Hispanic category were significantly above or below the MHCP statewide average. In general, the rate differences between the Hispanic group and other groups were minimal.

Unknown

Due to minimum reporting thresholds, this category was only reported for the administrative measures. For two measures (Testing for Children with Pharyngitis and Breast Cancer Screening), the Unknown category had the highest rate. There were three measures where the category had the lowest rate (Appropriate Medications for People with Asthma, Treatment for Children with URI, and Chlamydia Screening). For one measure the group's rate was significantly below the statewide MHCP rate (Chlamydia Screening). In general, the rate differences between the Unknown group and other groups were minimal.

Conclusion

The 2010 Health Care Disparities Report highlights that many statewide MHCP rates have improved since last year and over time. Results show that there is still room for improvement, especially for the Staying Healthy measures. Specifically, Breast Cancer screening, Cervical Cancer Screening and Childhood Immunization have remained steady with only slight increases compared to last year. As noted in last year's Health Care Disparities Report, there continues to be a need for medical groups to ensure that their MHCP patients are receiving appropriate preventive care services. These services will not only keep these patients healthy, but will also identify disease at an earlier stage when it can be treated most effectively.

Also, we continue to find statewide gaps between MHCP and Other Purchasers. The good news is that the gaps between purchasers have narrowed over time for five measures; three of the measures have significantly narrowed (Appropriate Testing for Children with Pharyngitis, Breast Cancer Screening, and Cervical Cancer Screening). For two measures the gap between purchasers is less than two percent (Appropriate Treatment for Children with URI and Childhood Immunization Status). The gap between purchasers continues to widen for Controlling High Blood Pressure. High blood pressure is an important chronic condition that needs extra medical group attention for their MHCP patients. Trends for a few measures could not be analyzed due to measurement specification and data source changes. For example, this was the first year that the report included three Direct Data Submission (DDS) measures collected by MN Community Measurement- Optimal Diabetes Care, Optimal Vascular Care and Depression Remission at Six Months.

This is the second Health Care Disparities Report to report statewide MHCP results by racial group and the first to report statewide MHCP results by ethnicity. Differences between racial groups were found for every measure within the MHCP patient population. Performance rates for the Black/African American racial group were the highest compared to other racial groups for most measures. In contrast, performance rates for the American Indian/Alaskan Native and Asian racial groups were lower more often than other racial groups.

In addition, results from five measures indicate that certain racial groups are significantly different from all other racial groups for that measure:

- Treatment for Children with Upper Respiratory Infection – the White racial group has a significantly lower rate than any other racial group.
- Testing for Children with Pharyngitis - the Asian/Pacific Islander/Native Hawaiian group has a rate that is significantly lower than other racial groups.
- Breast Cancer Screening – the American Indian/Alaskan Native racial group has a significantly lower rate than other known racial groups.
- Cervical Cancer Screening – the American Indian/Alaskan Native and Asian racial groups have rates that are significantly lower than any other racial group.
- Chlamydia Screening in Women - the White and Asian/Pacific Islander/Native Hawaiian racial groups have rates that are significantly lower than other racial groups.

For seven measures (Controlling High Blood Pressure, Use of Appropriate Medications for People with Asthma, Breast Cancer Screening, Cervical Cancer Screening, Colorectal Cancer Screening, Chlamydia Screening, and Childhood Immunization Status), Hispanic MHCP patients have a higher rate of performance than Non-Hispanic MHCP patients. For two of these measures (Cervical Cancer Screening and Childhood Immunization), the performance rate for Hispanic MHCP patients was significantly higher than Non-Hispanic MHCP patients and the MHCP statewide average.

(continued on next page)

Conclusion

Although the results by race and ethnicity are provided at a statewide level, they have important implications for medical groups and clinics. In order to reduce disparities by race and ethnicity, the racial and ethnic data must be used when designing and planning quality improvement initiatives. The first step is for a health care system to consistently and systematically collect race, ethnicity, and other demographic information to better address the unique health care challenges faced by diverse patient populations. The next step is to use the information and apply best practices in ways that address the identified differences.

With an increase in the number of clinics and medical groups submitting data to MNMCM through the Direct Data Submission Process, we were able to capture and calculate clinic level performance rates for MHCP and Other Purchaser patients. The public reporting of health care performance rates can serve as an impetus to quality improvement, particularly when rates are reported at a medical group or clinic level where more accountability lies and actions to address disparities are possible. Improving performance rates for all patients will require a thorough examination of these data by medical groups and clinics, an understanding of the unique needs of patients, and unrelenting implementation of targeted interventions. There is an opportunity this year for the report to reach more clinics and medical groups, and to be used as a tool by more groups as they work towards narrowing the gap between different purchasers in their patient populations.

Future Plans

The 2010 Health Care Disparities Report marks the fourth time that MNMCM and DHS have worked together to publicly report MHCP performance rates and to compare those rates with Other Purchasers. We examine the progress that has been made since the first report was issued and note that many performance rates have improved since last year and over time. We also find this year that for most measures, the gap between MHCP patients and patients enrolled with Other Purchasers is narrowing. It will be important to continue to report and monitor these rates annually to keep performance rate disparities visible to medical groups and clinics. This is the only public report that helps medical groups and clinics identify health care performance rate differences for their patients enrolled in state funded public programs versus Other Purchasers and compares these differences against those of other medical groups and clinics. Through discussions and our annual survey, many medical groups/clinics are using these results in their quality improvement efforts.

This marks the first time that DHS and MNMCM have publicly reported statewide performance rates by race and ethnicity for the nine HEDIS measures included in this report. This report includes performance rates for the Hispanic patient population, a growing demographic segment in Minnesota. Although the performance rates by race and ethnicity are not reported at a medical group or clinic level, the statewide findings can illuminate the need for health care providers to address the racial and ethnic disparities that may exist among their own MHCP patient populations.

This was the first year that we were able to report three measures - Optimal Diabetes Care, Optimal Vascular Care, and Depression Remission at Six Months - using data submitted directly by clinics and collected through MNMCM's Direct Data Submission Process. Statewide performance rates for MHCP patients and Other Purchaser patients were calculated for the first time at a clinic level for the Optimal Diabetes Care and Optimal Vascular Care measures. For the 2011 Disparities Report, we anticipate reporting clinic level performance rates of Depression Remission at Six Months. In addition, the blood pressure component of the Optimal Diabetes Care and Optimal Vascular Care measures will change to stay aligned with evidence-based clinical guidelines. The aspirin component will change for the Optimal Diabetes Care measure only.

As MNMCM moves forward with collecting more data through the Direct Data Submission process, we will be able to incorporate more of these clinic level measures in this report. Specifically, in 2011 we anticipate including the new Optimal Asthma Care and Colorectal Cancer Screening measures, both of which will use data submitted directly from medical groups. This means that the Use of Appropriate Medications for People with Asthma and the Colorectal Cancer Screening HEDIS measures that use health plan data will be retired. In addition, we will gather stories of how medical groups and clinics are improving their rates and will share these best practices in the next report. Our intent is for medical groups to use this information as a tool when planning and implementing strategies to drive improvement.

The Minnesota Department of Human Services and Minnesota Community Measurement are dedicated to continue publicly reporting of health care performance rates at a medical group and clinic level by purchaser group. We are pleased that these annual reports have generated interest from the media, policy makers, medical groups, and clinics. Our goal is to drive substantial health care improvements more quickly for Minnesota's vulnerable patients.

Acknowledgements

Data management, performance assessment and report production are provided by MN CM, a community-based, nonprofit organization dedicated to accelerating the improvement of health in Minnesota and surrounding communities through measurement and public reporting of health care performance.

The ten health plans and county-based purchasing organizations that contributed data for this report are:

- Blue Cross and Blue Shield of Minnesota
- HealthPartners
- Itasca Medical Care
- Medica
- Metropolitan Health Plan
- PreferredOne
- PrimeWest Health System
- Sanford Health Plan
- South Country Health Alliance
- UCare

Data aggregation and analysis are provided by associates of Data Intelligence, LLC, under subcontract with MN Community Measurement.

Medical Groups (Primary Care) Reported in 2010 (110)

Affiliated Community Medical Centers	Lake City Medical Center and Clinic - Mayo Health
Albert Lea Clinic - Mayo Health System	Lake Superior Community Health Center
Alexandria Clinic	Lakeview Clinic, Ltd.
Allina Health System	Lakeview Medical Clinic
Allina Medical Clinic	Lakewood Health Center
Altru Health System	Mankato Clinic
Apple Valley Medical Clinic	Mayo Clinic
Aspen Medical Group	Mayo Health System
Austin Medical Center - Mayo Health System	MeritCare
Avera Medical Group	Mid Minnesota Family Medicine Center
Bloomington Lake Clinic, Ltd.	Mille Lacs Clinics
BMC & St Joseph's Medical Center Clinics	Multicare Associates of The Twin Cities
Broadway Medical Center	Murray County Clinic
Buffalo Clinic	North Clinic
Burnett Medical Center	North Memorial Clinic
Cannon Falls Medical Center - Mayo Health System	NorthPoint Health and Wellness Center
Cannon Valley Clinic - Mayo Health System	Northstar Physicians
CCMH-Montevideo Clinic	Northwest Family Physicians
Cedar Riverside People's Center	Olmsted Medical Center
CentraCare Health System	Open Cities Health Center
Central Lakes Medical Clinic - Northstar Physician	Open Door Health Center
Clearwater Health Services	Owatonna Clinic - Mayo Health System
Community University Health Care Center	Park Nicollet Health Services
Dawson Clinic	Parkview Medical Clinic
Dr. Bobby K. Yang Medical Clinic	Paynesville Area Health Care System
Edina Family Physicians	Planned Parenthood Of MN, ND, SD
ELEAH Medical Center	Queen of Peace Hospital - Outpatient Clinic
Face To Face Health & Counseling	Quello Clinic
Fairmont Medical Center - Mayo Health System	Renville County Hospital and Clinics
Fairview Health Services	Ridgeview Clinics
Fairview Mesaba Clinics	Riverview Clinics
Family HealthServices Minnesota	Riverwood Aitkin Clinic
Family Medicine Of Winona	Sanford Clinic
Family Practice Medical Center Of Willmar	Scenic Rivers Health Services
FamilyHealth Medical Clinics	Silver Lake Clinic
Fergus Falls Medical Group	Sleepy Eye Medical Center
Foley Medical Center	Southern Metro Medical Clinics
Franciscan Skemp - Mayo Health System	Southside Community Health Services
Fremont Community Clinics	St. Cloud Medical Group
Gateway Family Health Clinic	St. Croix Regional Medical Center
Glencoe Regional Health Services	St. Luke's Clinics
Glenwood Medical Center	St. Mary's/Duluth Clinic Health System
Grand Itasca Clinic	St. Paul Family Medical Center
Gundersen Clinic	Stevens Community Medical Center - Morris
HealthEast	Stillwater Medical Group
HealthPartners Central Minnesota Clinics	SuperiorHealth Center
HealthPartners Clinics	United Family Medicine
Hennepin Faculty Associates & HCMC Clinics	United Hospital District Clinics
Hutchinson Medical Center	Unity Family Healthcare - Avon
Immanuel St Joseph - Mayo Health System	University Of Minnesota Physicians
Indian Health Board of Minneapolis	Wadena Medical Center
Innovis Health	West Side Community Health Services
Johnson Street Clinic	Williams Integracare Clinic
Kittson Memorial Clinic	Winona Health
Lac Qui Parle Clinic	

Additional Medical Group Provider Types Reported in 2010 (27)

Urgent Care/Convenience Care Clinics

Chaska Urgent Care
 Emergency Physicians
 Express Healthcare
 MinuteClinic
 Now Care Medical Centers
 Suburban Emergency Associates
 Urgent Care Doctor's Office
 WestHealth Urgent Care

OB/GYN

Brainerd Medical Center OB/GYN
 John A. Haugen Assoc.
 Metropolitan OB/GYN
 Oakdale OB/GYN
 Obstetrics & Gynecology Associates
 Obstetrics, Gyn & Infertility
 Partners OB/GYN
 Southdale OB/GYN Consultants
 Women's Health Consultants

Pediatric

Central Pediatrics
 Children's Hospital Clinics Mpls, St. Paul, TAMS, PACE
 Fridley Children's & Teenagers' Medical Center - Children's Physician Network
 Metropolitan Pediatric Specialists
 Partners In Pediatrics - Children's Physician Network
 Pediatric and Adolescent Services
 Pediatric And Young Adult Medicine - Children's Physician Network
 Priority Pediatrics Urgent Care
 South Lake Pediatrics - Children's Physician Network
 Southdale Pediatric Associates Ltd.

Appendix 1: Data Sources and Data Collection

Administrative and Hybrid Measures

Data used for the administrative and hybrid measures originated from health plan administrative claims databases. Hybrid measures were supplemented by medical record review. Most data elements were specified by the Healthcare Effectiveness Data and Information Set (HEDIS) 2010 Technical Specifications (2009 dates of service). HEDIS is produced and maintained by the National Committee for Quality Assurance (NCQA). The technical specifications provided detailed steps and instructions to ensure that the submitted data met rigorous standards. Some data elements were specified by MNCM and provided to the health plans.

The data elements were collected by the health plans using the HEDIS technical specifications that followed the annual HEDIS calendar. In addition, each health plan's data were subjected to extensive validation processes to ensure quality measures followed the standards described in Volume 5, HEDIS Compliance Audit®: Standards, Policies and Procedures. All health plan data were audited by an NCQA-certified HEDIS auditor.

MNCM developed a Data Structure document with detailed steps and instructions to ensure that data was submitted in a consistent way. In 2010, ten data sources – Blue Cross and Blue Shield of Minnesota, HealthPartners, Itasca Medical Care, Medica, Metropolitan Health Plan, PreferredOne, PrimeWest Health System (county-based purchaser), Sanford Health Plan, South Country Health Alliance (county-based purchaser), and UCare – submitted data to MNCM. The submitted health plan data reflected patients/members enrolled in the following products: commercial HMO/POS/PPO, Medicare Cost, Medicare Risk, and Minnesota Health Care Programs (Prepaid Medical Assistance including dual eligibles, MinnesotaCare, General Assistance Medical Care). Administrative and hybrid measures do not include patients who are uninsured, patients who self-pay, or patients who are served by Medicaid/Medicare fee-for-service.

All health plan data files were submitted to MNCM for aggregation, validation, and public reporting. An independent vendor under contract with MNCM conducted the aggregation and validation processes. Each health plan file was carefully reviewed to ensure conformance with the data structure and to identify unusual or unanticipated patterns. The files were also checked for proper formatting, missing and invalid values, and to confirm accurate record counts. Preliminary health plan rates were calculated and returned to each health plan for additional validation.

Once these file validation checks were finalized, the data files from all ten health plans were aggregated to create a comprehensive data file of results by medical group. The aggregated data file was then checked for accurate record counts and preliminary MNCM rates were calculated. The preliminary rates were carefully reviewed by MNCM staff and the data aggregation vendor. Particular attention was paid to notable changes from previous years at the statewide and medical group levels. After these checks were finalized, preliminary rates were compiled into the Health Care Disparities Report and sent to DHS and medical groups for review and comment. Any data concerns identified were reviewed to determine if the issues were related to the submitted data.

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Appendix 1: Data Sources and Data Collection

Direct Data Submission Measures

The data source of clinic level results was the clinic itself. All data elements were specified by MNCM in our 2010 Direct Data Submission Guides (2009 dates of service). These guides provided detailed steps and instructions to ensure that clinics submitted data in a consistent way.

Data for the Direct Data Submission measures were reported at two levels: By Clinic site and Medical Group. Clinics are defined as single sites where patients receive their care. Medical groups usually consist of multiple clinic sites. Often, the medical group provides centralized administrative functions for several clinic sites.

Medical groups/clinics that submit data for individual clinics must first register through the MNCM Data Portal. Once registered, they have the option to submit data on a clinic's total patient population or for a representative sample of the clinic's total patient population. Detailed instructions for sampling were also provided in the Direct Data Submission (DDS) Guide. Medical groups/clinics that submit through the DDS process must submit data for all clinics within the medical group.

Clinic abstractors collected data from medical records by either extracting the data from an electronic medical record through a data query or by abstracting the data from a paper-based medical record. Medical groups completed numerous quality checks before data was submitted to MNCM. All appropriate HIPAA requirements are followed.

Medical groups/Clinics submitted the required data elements directly through the portal. This process is referred to as MNCM Direct Data Submission (DDS). Once data were submitted, an extensive validation process was followed which included quality checks of all files and on-site audits for selected clinics. For the on-site audits, MNCM uses the National Committee for Quality Assurance's (NCQA) "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 were conducted by MNCM staff and/or contracted auditors who were independent of medical groups and/or clinics. Validation is very important for ensuring that the data are reliable, complete and consistent.

Appendix 2: Methods

Measures reported

Three types of measures were reported at the medical group level – measures that used an administrative data only method, measures that used a hybrid method (administrative claims data plus medical record review), and measures that used data submitted directly to MNMCM by medical groups and clinics from electronic health records or paper-based medical charts. The following measures used the hybrid method:

- Controlling High Blood Pressure
- Colorectal Cancer Screening
- Childhood Immunization Status (Combo 3)

The following measures used the administrative method:

- Use of Appropriate Medications for People with Asthma
- Appropriate Treatment for Children with Upper Respiratory Infection
- Appropriate Testing for Children with Pharyngitis
- Breast Cancer Screening
- Cervical Cancer Screening
- Chlamydia Screening

The following measures used data submitted directly to MNMCM by medical groups and clinics (DDS):

- Optimal Diabetes Care
- Optimal Vascular Care
- Depression Remission at Six Months

Each year, these measure specifications are reviewed against current evidence-based guidelines. Measurement specifications for medical group level results were calculated using NCQA's 2010 HEDIS Technical Specifications. Measurement specifications for clinic level results were calculated by MNMCM's Data Portal using MNMCM's 2010 DDS Guide and Technical Specifications.

Eligible Population Specifications

The eligible populations for the administrative and hybrid measures were identified by each participating health plan utilizing its respective administrative databases. NCQA's 2010 HEDIS Technical Specifications provided the standard definitions for the eligible population for each measure, which included data elements such as age, continuous enrollment, and anchor date requirements. The eligible populations for the measures reported directly to MNMCM by medical groups and clinics were identified by a medical group on behalf of their individual clinics. MNMCM's 2010 DDS Guide and Technical Specifications provided the standard definitions for the eligible population for each measure, which included elements such as age, appropriate diagnosis codes, number of visits needed in the measurement timeframe. For administrative measures, the entire eligible population was the denominator. For hybrid measures, the eligible population served as the sampling frame from which to draw the number of patients for chart audit and the reference for weighting.

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Appendix 2: Methods

Patient Attribution to Medical Groups/Clinics

Health plans assigned patients to a medical group using a frequency-based attribution logic and a standard medical group definition based on Tax Identification Numbers. Administrative billing codes determined the frequency of patient visits to medical groups. For most measures, patients were assigned to the medical group they visited most frequently during the measurement year. Patients who visited two or more medical groups with the same frequency were attributed to the medical group visited most recently in the measurement year. For two measures – Appropriate Testing for Children with Pharyngitis and Appropriate Treatment for Children with Upper Respiratory Infection – patients were assigned to the clinic they visited for the specific service.

In order to submit data at the clinic level for the DDS measures, medical groups attributed each patient to a single clinic within their medical group. Each medical group's patient attribution method is defined by the medical group and is then reviewed by MNMCM as part of the denominator certification process. Most patients are attributed to an assigned primary care provider. Some patients are attributed to a provider who saw the patient most often in the measurement year or most recently in the measurement year.

Sampling

For Hybrid Measures

As noted previously, the hybrid method required each participating health plan to first identify the eligible population meeting measurement specifications using its administrative databases. This population of eligibles served as the sampling frame from which to draw the denominator (the patients for whom medical record review would be completed). The resource-intensive nature of medical record review necessitated pulling a random sample of the eligible population, for medical record review. Medical record review was conducted for all enrollees drawn for the sample.

MNCM used a two-stage, random sampling process. This strategy was designed with statisticians to ensure reporting for the maximum number of medical groups while minimizing the impact of weighting on the results for any one medical group. The sampling procedure started with the health plans providing a data file containing a record for each eligible patient for each hybrid measure. This file also identified eligible patients that had been selected for the annual HEDIS sample. Additional patients were then selected from the remaining eligible population to meet MNMCM minimum reporting requirements.

For Measures Collected by Direct Data Submission

Medical groups may submit data on their full population or a sample of at least 60 patients per clinic, but they are strongly encouraged to submit their total population of patients. For medical groups that chose to submit a sample, the 2010 DDS Guide described accepted methods to select a systematic sample. This step is reviewed by MNMCM as part of the denominator certification process.

Numerator Specifications

For administrative measures, the numerator was the number of patients from the eligible population who met numerator targets. For hybrid measures, the numerator was the number of patients from the sample who met numerator targets. For DDS measures, the numerator was the number of patients identified from either the eligible population or the sample who meet the numerator targets. The targets are specified by MNMCM in the DDS Guide and compliance with these specifications is audited.

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Appendix 2: Methods

Weighting

For Hybrid Measures

Because data for the hybrid measures were taken from a sample, results were weighted to obtain accurate rates. This allowed for aggregation and unbiased reporting by medical group. Weighting was a cost-saving measure that enabled MNCM to draw a sample on which to estimate medical group and statewide rates. Weighting was applied to efficiently utilize health plan resources for data collection on a randomly sampled population. Weights were calculated for each sampling stratum (i.e., health plan/health plan product/medical group). A weight was equal to the total eligible population for that stratum divided by the total sample size. In calculating rates for a population – medical group or statewide – the denominator was the sum of the weights for all patients in that population, and the numerator was the sum of the weights for patients in the population who met the numerator targets.

For Measures Collected by Direct Data Submission

Data for the Direct Data Submission measures were taken from a sample but only for clinics that elected to sample their total population. In these cases, results were weighted to account for the total population.

Calculating Rates

For Administrative and Hybrid Measures

Medical group level rates were expressed as percentages. They were calculated as 100 times the number who met the numerator targets divided by the number who were eligible for the measure. Rates calculated for measures using the administrative method were straightforward. However, rates calculated for measures using the hybrid method required weighting because of the sampling procedures. Rates and 95-percent-asymmetrical confidence intervals were calculated for each measure for each medical group. Asymmetrical confidence intervals were used to avoid confidence interval lower-bound values less than zero and upper bound values greater than one hundred. Medical group rates are first calculated for each group and then a medical group average is calculated. The medical group average is displayed when comparing medical group performance to provide context.

For Measures Collected by Direct Data Submission

Clinic level rates were expressed as percentages. Clinic level rates are calculated as 100 times the number who meet the numerator specifications divided by the number in the denominator for the measure. Rates from measures using the total eligible population are straightforward calculations whereby the total eligible population serves as the denominator. For clinics that elected to sample from their total population, the rates calculated for the measures required weighting to account for the total eligible population. Due to the dynamic nature of clinic patient populations, rates and 95 percent confidence intervals are calculated for each measure for each clinic regardless of whether clinics submitted a full population or a sample. Clinic level rates are first calculated for each clinic and then a clinic rate average is calculated. The clinic average rate is displayed when comparing a single clinic to the performance of all clinics to provide context.

Assigning Payer Product Types for Measures Collected by Direct Data Submission

As part of Minnesota Community Measurement's Direct Data Submission process, medical groups directly submit data to MNCM to calculate clinic level performance rates. This information does not include payer product type. In order to calculate MHCP and Other Purchaser rates for the DDS measures, information submitted via DDS was supplemented with information from health plans to obtain a patient's payer product type (e.g., commercial, Medicaid, Medicare). Working with medical group and health plan representatives, MNCM developed a process to link the DDS performance data with health plan enrollment data and appropriately assign product type per patient.

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Appendix 2: Methods

Limitations

The medical groups and clinics identified in this report did not represent all medical groups and clinics in Minnesota. MNCM established minimum thresholds for public reporting to ensure statistically reliable rates. Only medical groups and clinics that met these thresholds were reported. Because hybrid measures are based on a sample, a higher threshold is used- 60 patients per medical group was required for public reporting to ensure a reasonable level of confidence in the reported rate. However, administrative measures are based on a complete census of managed care patients, so a minimum threshold of 30 patients per medical group was required. Direct Data Submission measures are based on complete census of all patients regardless of payer so a minimum threshold of 30 patients per clinic was required. It should also be noted that although medical groups and clinics are reported for some measures this may not mean they are reported for all measures.

It bears repeating that data used to calculate rates for administrative and hybrid measures reflected patients insured through ten health plans. Medical groups with patients who were insured through other health plans, who were uninsured, who self-pay, or who were served by a Medicaid/Medicare fee-for-service program were not reflected in these results. Therefore, the data for these measures did not necessarily represent a medical group's entire patient population.

Caution is recommended when making comparisons from year to year. Annual rate differences can occur due to natural variation, changes in measurement specifications, changes in data sources and other factors.

Limitations/implications of using continuous enrollment criteria with MHCP patients

Continuous enrollment specifies the minimum amount of time that a person must be enrolled in a health plan before he or she is eligible for a measure. Continuous enrollment criteria are used by a health plan to ensure ample time for a person/patient to obtain health care services while enrolled. The purpose is to standardize the method of patient inclusion in a measure across all health plans and medical groups. When used as part of a measurement tool, continuous enrollment defines a sufficient timeframe during which a health care service could be performed. A shorter enrollment period makes it less likely for a health care service to be rendered and also makes it difficult for a health plan to respond to the needs of a patient.

Patients can have interruptions in enrollment with a health insurance plan. These interruptions are also referred to as "gaps in enrollment". During a gap, a patient does not have health insurance coverage, making it less likely for him or her to obtain health care services. Unfortunately, MHCP patients may have multiple interruptions in enrollment during a 12-month period due to events such as the loss of MHCP eligibility. For most HEDIS measures, a 45-day gap in enrollment allows a patient to be included in a measure, but a study of the Medicaid population in Oregon demonstrated that these patients often have gaps in enrollment that exceed 45 days (Howard et al, 2002). Therefore, Medicaid patients, including patients enrolled in MHCP, who are represented in HEDIS measures are those with continuous enrollment and may not be reflective of the experience of all Medicaid/MHCP patients. For some measures, such as Cervical Cancer Screening, HEDIS continuous enrollment specifications are appropriately adjusted so that more Medicaid patients are eligible for the measure.

When performance rates are further calculated by race for the MHCP population, the continuous enrollment criteria magnifies the concern about representation. A review by the Minnesota Department of Human Services showed that continuous enrollment criteria reduced the representation of some racial groups within a HEDIS measure and some measures were impacted more than others. When designing quality improvement interventions targeting specific patient populations, particularly projects based on race, it will be important for medical groups and clinics to be aware of the impact that continuous enrollment has on HEDIS measures in general and for each racial group. To work with a more representative population, an adjustment of the continuous enrollment criteria may be necessary depending on the measures selected.

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Appendix 2: Methods

Data Analyses

Identifying High Performing Medical Groups/Clinics

For each measure, we calculated both individual medical group rates and a medical group average rate for MHCP patients. We identified medical groups that achieved high performance by comparing the individual medical group/clinic rate with the medical group average. Medical groups that had rates and 95 percent confidence intervals that were fully above the medical group average were noted as high performers. These high performers were highlighted in the Results by Measure section for each measure. The performance rates for all medical groups were presented by performance rate in descending order in Appendix 3. The same methods were performed at the clinic level for Optimal Diabetes Care and Optimal Vascular Care.

Identifying Medical Groups with Biggest Improvements

For each measure, we compared individual medical group rates during report year 2010 with their rates during report year 2009, calculating an absolute percentage point difference. Medical groups with the largest percentage point increases were identified.

Medical Group Performance Over Time (3 years)

This analysis was done to determine patterns of medical group performance over time per measure. Patterns were reviewed for the three reporting years (2008, 2009 and 2010). See “Medical Group Performance over Time (2008-2010)” in the Results by Measure section and Appendix 4 for detailed tables of medical groups.

Patterns in rate changes over the three reporting years (2008, 2009, and 2010) were reviewed. Only medical groups with rates for each of the three reporting periods per measure were included in the analysis. The percent and number of medical groups were reported for each of the following patterns of rate changes over the past three years for each measure:

- Consistently improved: Medical groups with more than a two percentage point increase between each consecutive year.
- Relatively stable: Medical groups that had no more than a two percentage point increase or decrease between each consecutive year (-2% – +2%).
- Consistently decreased: Medical groups with more than a two percentage point decrease between each consecutive year.
- Variable performance (with an improvement or with a decline): Medical groups with an up/down pattern that was not consistent and did not fall into one of the other categories.

The performance for each medical group was analyzed using a pair-wise comparison between the first and last year. Statistical significance was designated at a p-value of less than 0.05. Statistical analysis was conducted using a general linear regression model with SASv9.1 (SAS Institute, Cary, NC) for each medical group. Statistical significance was designated at a p-value of less than 0.05.

Analysis of Linear Trend

This analysis reviewed statewide gaps between purchasers (MHCP versus Other Purchasers) over time. Five measures with five or more years of data were examined for a linear trend in the difference between purchasers over time (Other Purchasers rate - MHCP rate). A linear trend was calculated for each measure using a general linear regression model with SASv9.1 (SAS Institute, Cary, NC). Of the five measures with five or more years of data, the following three measures exhibited statistically significant trends ($p < .05$).

- Appropriate Testing for Children with Pharyngitis (Figure 8.2)
- Breast Cancer Screening (Figure 9.2)
- Cervical Cancer Screening (Figure 10.2)

Appendix 3: Medical Group and Clinic Performance Rate Tables

This section includes detailed tables per measure. The following elements are included in each table:

- Medical Group/Clinic name in order of high rate to low rate.
- The total number of patients in the denominator for each measure (N).
- The medical group's overall rate for each measure in their MHCP population.
- The lower and upper bounds of the 95% confidence interval.
- A rating that categorizes each medical group/clinic's performance. An "Above" average rating is for medical groups/clinics that have an average and confidence interval that is fully above the overall medical group/clinic average for MHCP patients. An "Average" rating is for groups/clinics that have a confidence interval that includes the overall medical group/clinic average for MHCP patients. A "Below" average rating is for groups/clinics that have an average and confidence interval that is fully below the overall medical group/clinic average for MHCP patients.
- Total Population or Sample category which tells whether the rate was calculated using a sample or total population of a medical group/clinic's MHCP patient population.

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Table 17.1: Optimal Diabetes Care Rates by Clinic
 (Minnesota Health Care Programs with 30+ patients in denominator)

Clinic Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Clinic Average		10.6%	10.1%	11.0%		
Affiliated Community Medical Centers- Litchfield Clinic (East)	40	35.0%	22.1%	50.5%	Above	Total Population
Allina Medical Clinic- Champlin	38	34.2%	21.2%	50.1%	Above	Total Population
Allina Medical Clinic- Elk River	32	31.3%	18.0%	48.6%	Above	Total Population
HealthPartners- RiverWay Andover	33	30.3%	17.4%	47.3%	Above	Total Population
Fairview Oxboro Clinic	63	30.2%	20.2%	42.4%	Above	Total Population
Allina Medical Clinic- Nicollet Mall	55	29.1%	18.8%	42.1%	Above	Total Population
Allina Medical Clinic- Ramsey	31	29.0%	16.1%	46.6%	Above	Total Population
St. Mary's/Duluth Clinic- Spooner	50	28.0%	17.5%	41.7%	Above	Total Population
HealthEast- Woodbury	40	27.5%	16.1%	42.8%	Above	Total Population
Allina Medical Clinic- Woodlake	55	27.3%	17.3%	40.2%	Above	Total Population
Allina Medical Clinic- Shakopee	52	26.9%	16.8%	40.3%	Above	Total Population
Park Nicollet Clinic- Eagan	49	26.5%	16.2%	40.3%	Above	Total Population
HealthPartners- West	35	25.7%	14.2%	42.1%	Above	Total Population
HealthPartners- Coon Rapids	68	25.0%	16.2%	36.4%	Above	Total Population
Allina Medical Clinic- Forest Lake	52	25.0%	15.2%	38.2%	Above	Total Population
Allina Medical Clinic- Eagan	49	24.5%	14.6%	38.1%	Above	Total Population
Allina Medical Clinic- Faribault	90	24.4%	16.7%	34.3%	Above	Total Population
Fairview Hiawatha Clinic	41	24.4%	13.8%	39.3%	Above	Total Population
Allina Medical Clinic- Coon Rapids	259	24.3%	19.5%	29.9%	Above	Total Population
Fairview EdenCenter Clinic	34	23.5%	12.4%	40.0%	Above	Total Population
Affiliated Community Medical Centers- Redwood Falls Clinic	57	22.8%	13.8%	35.2%	Above	Total Population
Allina Medical Clinic- Buffalo	72	22.2%	14.2%	33.1%	Above	Total Population
Park Nicollet Clinic- Bloomington	37	21.6%	11.4%	37.2%	Above	Total Population
Allina Medical Clinic- Edina	51	21.6%	12.5%	34.6%	Above	Total Population
Hutchinson Medical Center	112	21.4%	14.8%	29.9%	Above	Total Population
Allina Medical Clinic- Mora	78	20.5%	13.0%	30.8%	Above	Total Population
Allina Medical Clinic- Cottage Grove	88	20.5%	13.4%	30.0%	Above	Total Population
HealthPartners- Como	64	20.3%	12.3%	31.7%	Above	Total Population
Park Nicollet Clinic- St. Louis Park Family Medicine	104	20.2%	13.6%	28.9%	Above	Total Population
HealthPartners- Center for International Health	130	20.0%	14.0%	27.7%	Above	Total Population
St. Mary's/Duluth Clinic- Deer River	65	20.0%	12.1%	31.3%	Above	Total Population
HealthPartners- Health Specialty Center	239	19.7%	15.1%	25.2%	Above	Total Population
HealthPartners- Midway	102	19.6%	13.1%	28.4%	Above	Total Population
HealthPartners- Maplewood	74	18.9%	11.6%	29.3%	Above	Total Population
Allina Medical Clinic- Northfield	64	18.8%	11.1%	30.0%	Above	Total Population
Affiliated Community Med. Cntrs- Marshall Clinic (Market Street)	107	18.7%	12.4%	27.1%	Above	Total Population
University of Minnesota Physicians- Phalen Clinic	113	18.6%	12.5%	26.8%	Above	Total Population
HealthPartners- Riverside	140	18.6%	13.0%	25.8%	Above	Total Population
Allina Health System- New Ulm Medical Center	81	18.5%	11.6%	28.3%	Above	Total Population
Affiliated Community Medical Centers- Litchfield Clinic (West)	38	18.4%	9.2%	33.4%	Average	Total Population
Affiliated Community Medical Centers- Granite Falls Clinic	33	18.2%	8.6%	34.4%	Average	Total Population
Apple Valley Medical Clinic	50	18.0%	9.8%	30.8%	Average	Total Population
Family Practice Medical Center of Willmar	74	17.6%	10.6%	27.8%	Above	Total Population
Allina Medical Clinic- Hastings (Nininger)	35	17.1%	8.1%	32.7%	Average	Total Population
Allina Medical Clinic- West Health Campus	41	17.1%	8.5%	31.3%	Average	Total Population
Affiliated Community Medical Centers- Willmar Clinic	223	17.0%	12.7%	22.5%	Above	Total Population
Green Central Medical Clinic	47	17.0%	8.9%	30.1%	Average	Sample

Table 17.1: Optimal Diabetes Care Rates by Clinic- *continued*
 (Minnesota Health Care Programs with 30+ patients in denominator)

Clinic Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Clinic Average		10.6%	10.1%	11.0%		
University of Minnesota Physicians- Smiley's Clinic	195	16.9%	12.3%	22.8%	Above	Total Population
Stillwater Medical Group- Curve Crest Clinic	77	16.9%	10.1%	26.8%	Average	Total Population
St. Mary's/Duluth Clinic- Hibbing	48	16.7%	8.7%	29.6%	Average	Total Population
Affiliated Community Medical Centers- Benson Clinic	42	16.7%	8.3%	30.6%	Average	Total Population
HealthPartners- Inver Grove Heights	37	16.2%	7.7%	31.1%	Average	Total Population
Park Nicollet Clinic- Chanhassen	57	15.8%	8.5%	27.4%	Average	Total Population
Park Nicollet Clinic- Shakopee	108	15.7%	10.1%	23.8%	Average	Total Population
Allina Medical Clinic- West St. Paul	83	15.7%	9.4%	25.0%	Average	Total Population
Fairview Elk River Clinic	32	15.6%	6.9%	31.8%	Average	Total Population
Quello Clinic- Burnsville	32	15.6%	6.9%	31.8%	Average	Total Population
HealthPartners- Brooklyn Center	110	15.5%	9.9%	23.4%	Average	Total Population
HealthPartners- Apple Valley	52	15.4%	8.0%	27.5%	Average	Total Population
HealthEast- Roselawn	93	15.1%	9.2%	23.7%	Average	Total Population
Park Nicollet Clinic- St. Louis Park Internal Medicine	100	15.0%	9.3%	23.3%	Average	Total Population
Allina Medical Clinic- Woodbury	40	15.0%	7.1%	29.1%	Average	Total Population
Rainy Lake Medical Center	54	14.8%	7.7%	26.6%	Average	Total Population
Park Nicollet Clinic- Burnsville	109	14.7%	9.2%	22.5%	Average	Total Population
Multicare Associates- Blaine Medical Center	55	14.6%	7.6%	26.2%	Average	Total Population
Allina Medical Clinic- United Medical Specialties	76	14.5%	8.3%	24.1%	Average	Total Population
Allina Medical Clinic- Hastings (W First St)	42	14.3%	6.7%	27.8%	Average	Total Population
HealthPartners- St. Paul	113	14.2%	8.9%	21.8%	Average	Total Population
Fairview Ridges Clinic	50	14.0%	7.0%	26.2%	Average	Total Population
North Memorial Clinic- Brooklyn Park Physicians	43	14.0%	6.6%	27.3%	Average	Total Population
Fairview Princeton Clinic	58	13.8%	7.2%	24.9%	Average	Total Population
SMDC Medical Center- DC West	95	13.7%	8.2%	22.0%	Average	Total Population
Park Nicollet Clinic- Creekside	59	13.6%	7.0%	24.5%	Average	Total Population
SMDC Medical Center- DC First Street Building	179	13.4%	9.2%	19.2%	Average	Total Population
SMDC Medical Center- DC Lakeside	30	13.3%	5.3%	29.7%	Average	Total Population
HealthPartners- RiverWay Anoka	62	12.9%	6.7%	23.5%	Average	Total Population
HealthEast- Midway	31	12.9%	5.1%	28.9%	Average	Total Population
Hennepin Faculty Associates- Hennepin Care South	140	12.9%	8.3%	19.4%	Average	Total Population
Allina Medical Clinic- Cambridge Medical Center	142	12.7%	8.2%	19.2%	Average	Total Population
Fairview Northeast Clinic	40	12.5%	5.5%	26.1%	Average	Total Population
Bloomington Lake Clinic- Minneapolis	66	12.1%	6.3%	22.1%	Average	Total Population
SMHS/DC- Superior	108	12.0%	7.2%	19.5%	Average	Total Population
Park Nicollet Clinic- Brookdale	167	12.0%	7.9%	17.8%	Average	Total Population
HealthPartners- Woodbury	76	11.8%	6.4%	21.0%	Average	Total Population
HealthPartners- Bloomington	86	11.6%	6.4%	20.1%	Average	Total Population
University of Minnesota Physicians- Bethesda Clinic	142	11.3%	7.1%	17.5%	Average	Total Population
Northwest Family Physicians- Crystal	73	11.0%	5.7%	20.2%	Average	Total Population
Fairview CedarRidge Clinic	55	10.9%	5.1%	21.8%	Average	Total Population
HealthEast- Rice Street	120	10.8%	6.4%	17.7%	Average	Total Population
Family HealthServices Minnesota- Maryland Clinic	37	10.8%	4.3%	24.7%	Average	Total Population
St. Mary's/Duluth Clinic- Ely	48	10.4%	4.5%	22.2%	Average	Total Population
SMDC Medical Center- DC Hermantown	60	10.0%	4.7%	20.2%	Average	Total Population
Allina Medical Clinic- Farmington	30	10.0%	3.5%	25.6%	Average	Total Population
HealthPartners Central Minnesota Clinics- St. Cloud	51	9.8%	4.3%	21.0%	Average	Total Population

Table 17.1: Optimal Diabetes Care Rates by Clinic- *continued*
 (Minnesota Health Care Programs with 30+ patients in denominator)

Clinic Name (Δ=Endocrinology)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Clinic Average		10.6%	10.1%	11.0%		
Family HealthServices Minnesota- North St. Paul Clinic	42	9.5%	3.8%	22.1%	Average	Total Population
Multicare Associates- Fridley Medical Center	85	9.4%	4.9%	17.5%	Average	Total Population
Hennepin Faculty Associates- HFA Internal Medicine Clinic	86	9.3%	4.8%	17.3%	Average	Total Population
Park Nicollet Clinic- Minneapolis	151	9.3%	5.6%	15.0%	Average	Total Population
Family HealthServices Minnesota- Afton Road	33	9.1%	3.1%	23.6%	Average	Total Population
NorthPoint Health & Wellness Center	433	9.0%	6.7%	12.1%	Average	Total Population
Δ Park Nicollet Clinic- St. Louis Park Endocrinology	211	9.0%	5.8%	13.6%	Average	Total Population
HFA- Hennepin Family Care East Lake Clinic	186	8.6%	5.4%	13.5%	Average	Total Population
University of Minnesota Physicians- Broadway Family Medicine	176	8.5%	5.2%	13.6%	Average	Total Population
Hennepin Faculty Associates- HCMC Family Medical Center	400	8.3%	5.9%	11.4%	Average	Total Population
MeritCare- Walker	111	8.1%	4.3%	14.7%	Average	Total Population
Paynesville Chain of Lakes Medical Clinic	62	8.1%	3.5%	17.5%	Average	Total Population
MeritCare- West Fargo	218	7.8%	4.9%	12.1%	Average	Total Population
MeritCare- Thief River Falls Northwest Clinic	142	7.8%	4.4%	13.3%	Average	Total Population
St. Mary's/Duluth Clinic- Aurora	39	7.7%	2.7%	20.3%	Average	Total Population
St. Mary's/Duluth Clinic- Virginia	84	7.1%	3.3%	14.7%	Average	Total Population
Paynesville Richmond Medical Clinic	71	7.0%	3.1%	15.5%	Average	Sample
St. Mary's/Duluth Clinic- Hayward	86	7.0%	3.2%	14.4%	Average	Total Population
St. Mary's/Duluth Clinic- Ashland	91	6.6%	3.1%	13.7%	Average	Total Population
Hennepin Faculty Associates- Hennepin Care North	123	6.5%	3.3%	12.3%	Average	Total Population
Stevens Community Medical Center	31	6.5%	1.8%	20.7%	Average	Total Population
Family HealthServices Minnesota- Vadnais Heights Office	32	6.3%	1.7%	20.2%	Average	Total Population
University of Minnesota Physicians- Primary Care Center	51	5.9%	2.0%	15.9%	Average	Total Population
Lakeview Medical Clinic	34	5.9%	1.6%	19.1%	Average	Sample
Δ HFA- Hennepin Center for Diabetes & Endocrinology	137	5.8%	3.0%	11.1%	Average	Total Population
Hennepin Faculty Associates- HCMC Medicine Clinic	851	5.6%	4.3%	7.4%	Below	Total Population
MeritCare- Bemidji Family Medicine	54	5.6%	1.9%	15.1%	Average	Total Population
Olmsted Medical Center- Rochester Southeast	150	5.3%	2.7%	10.2%	Below	Total Population
West Side Community Health Services- La Clinica	42	4.8%	1.3%	15.8%	Average	Sample
Open Door Health Center	48	4.2%	1.2%	14.0%	Average	Total Population
Cedar Riverside People's Cntr.- People's Center Medical Clinic	49	4.1%	1.1%	13.7%	Average	Sample
Fairview Lakes Medical Center	49	4.1%	1.1%	13.7%	Average	Total Population
Paynesville Eden Valley Medical Clinic	54	3.7%	1.0%	12.5%	Average	Total Population
Open Cities Health Center- Dunlap	30	3.3%	0.6%	16.7%	Average	Sample
St. Croix Family Medical Clinic	30	3.3%	0.6%	16.7%	Average	Total Population
Community-University Health Care Center	31	3.2%	0.6%	16.2%	Average	Total Population
Δ University of Minnesota Physicians-Medicine 6 Clinic, Endocrine	31	3.2%	0.6%	16.2%	Average	Sample
Burnett Medical Center	33	3.0%	0.5%	15.3%	Average	Total Population
MeritCare- Broadway Internal Medicine	33	3.0%	0.5%	15.3%	Average	Total Population
MeritCare- Detroit Lakes	33	3.0%	0.5%	15.3%	Average	Total Population
Southside Medical Clinic	34	2.9%	0.5%	14.9%	Average	Sample
Paynesville Medical Clinic	71	2.8%	0.8%	9.7%	Below	Sample
Mid Minnesota Family Medicine Center	76	2.6%	0.7%	9.1%	Below	Total Population
Glenwood Medical Center	52	1.9%	0.3%	10.1%	Below	Total Population
Lake Superior Community Health Center- Duluth	42	0.0%	0.0%	8.4%	Below	Total Population
Open Cities Health Center- Northend	36	0.0%	0.0%	9.6%	Below	Sample
Paynesville Watkins Medical Clinic	36	0.0%	0.0%	9.6%	Below	Total Population

Table 17.2: Optimal Diabetes Care Rates by Medical Group
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		10.6%	10.1%	11.0%		
Hutchinson Medical Center	112	21.4%	14.8%	29.9%	Above	Total Population
Allina Medical Clinic	1,786	20.9%	19.1%	22.8%	Above	Total Population
Affiliated Community Medical Centers	569	19.7%	16.6%	23.1%	Above	Total Population
Allina Health System	103	18.4%	12.1%	27.0%	Above	Total Population
Apple Valley Medical Clinic	50	18.0%	9.8%	30.8%	Average	Total Population
HealthPartners Clinics	1,557	17.9%	16.1%	19.9%	Above	Total Population
Family Practice Medical Center of Willmar	74	17.6%	10.6%	27.8%	Above	Total Population
Stillwater Medical Group	83	15.8%	9.5%	25.1%	Average	Total Population
Altru Health System	47	15.3%	7.7%	28.1%	Average	Mixed
HealthEast Clinics	450	14.5%	11.5%	18.0%	Above	Total Population
Aspen Medical Group	40	14.4%	6.7%	28.4%	Average	Sample
Park Nicollet Health Services	1,309	14.1%	12.3%	16.1%	Above	Total Population
Family HealthServices Minnesota	281	12.8%	9.4%	17.2%	Average	Total Population
Quello Clinic	106	12.4%	7.4%	20.0%	Average	Total Population
St. Mary's/Duluth Clinic Health System	1,066	12.2%	10.4%	14.3%	Average	Total Population
Gateway Family Health Clinic	33	12.2%	4.8%	27.4%	Average	Mixed
Bloomington Lake Clinic	91	12.1%	6.9%	20.4%	Average	Total Population
Sanford Clinic	55	11.5%	5.5%	22.6%	Average	Sample
Northwest Family Physicians	103	11.5%	6.7%	19.1%	Average	Total Population
University of Minnesota Physicians	713	11.3%	9.2%	13.8%	Average	Mixed
North Memorial	204	11.2%	7.6%	16.3%	Average	Total Population
Multicare Associates	154	11.0%	7.0%	17.0%	Average	Total Population
Innovis Health	67	10.5%	5.2%	20.1%	Average	Sample
Fairview Health Services	786	10.0%	8.1%	12.3%	Average	Mixed
Mayo Health System	203	9.4%	6.1%	14.2%	Average	Sample
NorthPoint Health & Wellness Center	433	9.0%	6.7%	12.1%	Average	Total Population
Northstar Physicians Network	40	8.9%	3.3%	21.6%	Average	Mixed
HealthPartners Central Minnesota Clinics	54	8.8%	3.7%	19.3%	Average	Total Population
Southside Community Health Services	111	8.0%	4.3%	14.6%	Average	Mixed
Hennepin Faculty Associates: HFA Clinics & HCMC Clinics	1,962	7.4%	6.3%	8.6%	Below	Total Population
MeritCare	874	7.3%	5.8%	9.3%	Below	Total Population
Olmsted Medical Center	251	7.3%	4.7%	11.2%	Average	Total Population
Renville County Hospital and Clinics	47	6.2%	2.1%	16.9%	Average	Total Population
Lakeview Medical Clinic	34	5.9%	1.6%	19.1%	Average	Sample
Silver Lake Clinic	35	5.7%	1.6%	18.6%	Average	Total Population
Stevens Community Medical Center	36	5.5%	1.5%	18.1%	Average	Total Population
Buffalo Clinic	35	5.2%	1.3%	17.8%	Average	Sample
St. Luke's Clinics	70	5.1%	1.9%	12.9%	Average	Mixed
Paynesville Area Health System	331	4.6%	2.8%	7.5%	Below	Mixed
Open Door Health Center	48	4.2%	1.2%	14.0%	Average	Total Population
Cedar Riverside People's Center	49	4.1%	1.1%	13.7%	Average	Sample
BMC & St. Joseph's Medical Center Clinics	34	4.0%	0.9%	16.5%	Average	Mixed
Ridgeview Clinics	54	3.8%	1.1%	12.7%	Average	Total Population
West Side Community Health Services	96	3.7%	1.4%	9.6%	Below	Sample
Community University Health Care Center	31	3.2%	0.6%	16.2%	Average	Total Population
Burnett Medical Center	33	3.0%	0.5%	15.3%	Average	Total Population
Mid Minnesota Family Medicine Center	76	2.6%	0.7%	9.1%	Below	Total Population
Open Cities Health Center	66	2.1%	0.5%	9.1%	Below	Sample
Glenwood Medical Center	57	1.8%	0.3%	9.3%	Below	Total Population
Scenic Rivers Health Services	56	1.7%	0.3%	9.3%	Below	Total Population
Lake Superior Community Health Center	42	0.0%	0.0%	8.4%	Below	Total Population
Riverwood Healthcare Center	34	0.0%	0.0%	10.2%	Below	Mixed

Table 18.1: Optimal Vascular Care Rates by Clinic
 (Minnesota Health Care Programs with 30+ patients in denominator)

Clinic Name (+ = Cardiology)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Clinic Average		20.6%	19.4%	21.9%		
SMDC Medical Center- DC First Street Building	42	38.1%	25.0%	53.2%	Above	Total Population
HealthPartners- Health Specialty Center	46	37.0%	24.5%	51.4%	Above	Total Population
SMHS/DC- Superior	32	34.4%	20.4%	51.7%	Average	Total Population
Allina Medical Clinic- Coon Rapids	65	33.9%	23.5%	46.0%	Above	Total Population
Allina Medical Clinic- Cambridge Medical Center	40	30.0%	18.1%	45.4%	Average	Total Population
+ HealthPartners- Regions Heart Center	118	26.3%	19.2%	34.9%	Average	Total Population
St. Mary's/Duluth Clinic- DC Main	41	24.4%	13.8%	39.3%	Average	Total Population
University of Minnesota Physicians- Broadway Family Medicine	66	24.2%	15.5%	35.8%	Average	Total Population
+ Allina Health System- Metropolitan Heart & Vascular Institute	172	22.1%	16.5%	28.9%	Average	Total Population
MeritCare- Thief River Falls Northwest Clinic	96	19.8%	13.1%	28.9%	Average	Total Population
Park Nicollet Clinic- Brookdale	31	19.4%	9.2%	36.3%	Average	Total Population
Hennepin Faculty Associates- HCMC Medicine Clinic	183	18.6%	13.6%	24.8%	Average	Total Population
+ Allina Health System- Minneapolis Heart Institute	168	17.9%	12.8%	24.4%	Average	Total Population
St. Mary's/Duluth Clinic- Ashland	33	15.2%	6.7%	30.9%	Average	Total Population
Paynesville Richmond Medical Clinic	37	13.5%	5.9%	28.0%	Average	Total Population
+ Hennepin Faculty Associates- HCMC Hennepin Heart Center	30	13.3%	5.3%	29.7%	Average	Total Population
Paynesville Medical Clinic	40	10.0%	4.0%	23.1%	Average	Total Population
Queen of Peace Hospital- Outpatient Clinic	38	5.3%	1.5%	17.3%	Below	Total Population

Table 18.2: Optimal Vascular Care Rates by Medical Group
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		20.6%	19.4%	21.9%		
Affiliated Community Medical Centers	87	36.0%	26.7%	46.5%	Above	Total Population
Allina Medical Clinic	412	32.9%	28.6%	37.6%	Above	Total Population
Family HealthServices Minnesota	53	32.1%	21.1%	45.5%	Above	Total Population
HealthPartners Clinics	378	30.9%	26.4%	35.7%	Above	Total Population
Park Nicollet Health Services	189	30.4%	24.3%	37.3%	Above	Total Population
HealthEast Clinics	64	27.9%	18.4%	39.8%	Average	Total Population
St. Mary's/Duluth Clinic Health System	334	26.0%	21.5%	30.9%	Above	Total Population
Mayo Health System	109	24.4%	17.3%	33.3%	Average	Mixed
Innovis Health	45	23.1%	13.2%	37.2%	Average	Mixed
Allina Health System	371	20.2%	16.5%	24.6%	Average	Total Population
Northstar Physicians Network	30	18.7%	8.7%	35.9%	Average	Total Population
University of Minnesota Physicians	131	18.0%	12.4%	25.5%	Average	Mixed
Multicare Associates	45	17.8%	9.3%	31.3%	Average	Total Population
MeritCare	264	17.7%	13.6%	22.8%	Average	Total Population
Hennepin Faculty Associates- HFA Clinics & HCMC Clinics	289	17.6%	13.6%	22.4%	Average	Total Population
Fairview Health Services	129	15.9%	10.6%	23.2%	Average	Mixed
North Memorial	81	15.2%	9.0%	24.6%	Average	Mixed
West Side Community Health Services	32	14.8%	6.4%	30.8%	Average	Total Population
St. Luke's Clinics	41	12.1%	5.2%	25.4%	Average	Mixed
Paynesville Area Health System	117	12.0%	7.3%	19.2%	Below	Total Population
Queen of Peace Hospital- Outpatient Clinic	38	5.3%	1.5%	17.3%	Below	Total Population
Open Cities Health Center	33	3.6%	0.7%	16.2%	Below	Mixed

Table 19: Controlling High Blood Pressure Rates by Medical Group
(Minnesota Health Care Programs with 60+ patients in sample)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		67.4%	66.3%	68.5%		
Family HealthServices Minnesota	73	87.6%	78.2%	93.4%	Above	Sample
Owatonna Clinic- Mayo Health System	107	83.6%	75.5%	89.4%	Above	Sample
Park Nicollet Health Services	224	80.1%	74.4%	84.8%	Above	Sample
BMC & St. Joseph's Medical Center Clinics	65	78.0%	66.6%	86.4%	Average	Sample
Affiliated Community Medical Centers	141	77.2%	69.6%	83.3%	Above	Sample
CentraCare Health System	84	77.0%	66.9%	84.7%	Average	Sample
Allina Medical Clinic	367	76.6%	72.0%	80.7%	Above	Sample
Quello Clinic	63	76.2%	64.4%	85.0%	Average	Sample
HealthEast	97	76.0%	66.6%	83.4%	Average	Sample
Alexandria Clinic	78	75.7%	65.1%	83.9%	Average	Sample
HealthPartners Clinics	602	74.7%	71.1%	78.1%	Above	Sample
Multicare Associates of the Twin Cities	66	74.4%	62.8%	83.4%	Average	Sample
Mayo Clinic	72	74.0%	62.9%	82.7%	Average	Sample
Community University Health Care Center	64	73.8%	61.9%	83.0%	Average	Sample
North Memorial Clinic	75	73.6%	62.7%	82.3%	Average	Sample
Fairview Health Services	401	72.2%	67.6%	76.4%	Above	Sample
Austin Medical Center- Mayo Health System	60	71.9%	59.5%	81.7%	Average	Sample
St. Mary's/Duluth Clinic Health System	146	71.7%	63.9%	78.4%	Average	Sample
St. Cloud Medical Group	71	71.5%	60.2%	80.7%	Average	Sample
Fairmont Medical Center- Mayo Health System	65	71.4%	59.4%	80.9%	Average	Sample
Gundersen Clinic	67	71.2%	59.5%	80.7%	Average	Sample
Olmsted Medical Center	82	71.1%	60.5%	79.8%	Average	Sample
United Family Medicine	67	70.5%	58.7%	80.1%	Average	Sample
Buffalo Clinic	69	69.5%	57.9%	79.1%	Average	Sample
Mankato Clinic	71	68.8%	57.3%	78.4%	Average	Sample
Immanuel St. Joseph- Mayo Health System	103	68.5%	59.0%	76.7%	Average	Sample
Central Lakes Medical Clinic- Northstar Physicians Network	69	68.5%	56.8%	78.3%	Average	Sample
Bloomington Lake Clinic, LTD.	68	67.1%	55.3%	77.1%	Average	Sample
Open Cities Health Center	72	66.8%	55.3%	76.6%	Average	Sample
Allina Health System	150	65.6%	57.7%	72.7%	Average	Sample
Broadway Medical Center	68	65.3%	53.5%	75.5%	Average	Sample
Aspen Medical Group	67	64.3%	52.4%	74.7%	Average	Sample
MeritCare	186	63.7%	56.6%	70.3%	Average	Sample
St. Luke's Clinics	69	62.9%	51.1%	73.3%	Average	Sample
Albert Lea Clinic- Mayo Health System	93	61.6%	51.5%	70.9%	Average	Sample
Avera Medical Group	69	61.6%	49.8%	72.2%	Average	Sample
Sanford Clinic	71	59.8%	48.2%	70.4%	Average	Sample
Hennepin Faculty Associates & HCMC Clinics	589	59.7%	55.7%	63.6%	Below	Sample
Altru Health System	70	58.7%	47.0%	69.5%	Average	Sample
Northstar Physicians	78	58.7%	47.6%	69.0%	Average	Sample
Fergus Falls Medical Group	74	58.5%	47.2%	69.1%	Average	Sample
NorthPoint Health and Wellness Center	93	58.4%	48.2%	67.9%	Average	Sample
North Clinic	67	56.5%	44.6%	67.7%	Average	Sample
University of Minnesota Physicians	239	55.6%	49.3%	61.8%	Below	Sample
Cedar Riverside People's Center	64	55.1%	42.9%	66.6%	Below	Sample
Innovis Health	76	53.2%	42.1%	64.0%	Below	Sample
Gateway Family Health Clinic	65	51.9%	40.0%	63.6%	Below	Sample
Grand Itasca Clinic	107	51.8%	42.5%	61.1%	Below	Sample
West Side Community Health Services	66	50.8%	39.1%	62.5%	Below	Sample
Wadena Medical Center	67	49.7%	38.1%	61.3%	Below	Sample
Fairview Mesaba Clinics	61	49.3%	37.2%	61.5%	Below	Sample
Winona Health	64	48.3%	36.5%	60.3%	Below	Sample
Lakewood Health Center	68	39.7%	29.0%	51.6%	Below	Sample
St. Paul Family Medical Center	60	35.3%	24.4%	48.0%	Below	Sample

Table 20.1: Asthma Care Rates by Medical Group- Ages 5-50
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#=Pediatric)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		88.9%	87.9%	89.9%		
Alexandria Clinic	53	98.1%	90.1%	99.7%	Above	Total Population
St. Cloud Medical Group	47	97.9%	88.9%	99.6%	Above	Total Population
# Partners in Pediatrics- Children's Physician Network	42	97.6%	87.7%	99.6%	Average	Total Population
# Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	199	96.5%	92.9%	98.3%	Above	Total Population
Affiliated Community Medical Centers	80	95.0%	87.8%	98.0%	Average	Total Population
Hutchinson Medical Center	36	94.4%	81.9%	98.5%	Average	Total Population
Immanuel St. Joseph- Mayo Health System	35	94.3%	81.4%	98.4%	Average	Total Population
Fremont Community Clinics	86	94.2%	87.1%	97.5%	Average	Total Population
Avera Medical Group	34	94.1%	80.9%	98.4%	Average	Total Population
CentraCare Health System	82	93.9%	86.5%	97.4%	Average	Total Population
Mayo Clinic	45	93.3%	82.1%	97.7%	Average	Total Population
Northstar Physicians	55	92.7%	82.7%	97.1%	Average	Total Population
Park Nicollet Health Services	129	92.3%	86.3%	95.7%	Average	Total Population
HealthEast	64	92.2%	83.0%	96.6%	Average	Total Population
Innovis Health	33	90.9%	76.4%	96.9%	Average	Total Population
Open Cities Health Center	30	90.0%	74.4%	96.5%	Average	Total Population
Sanford Clinic	39	89.7%	76.4%	95.9%	Average	Total Population
BMC & St. Joseph's Medical Center Clinics	38	89.5%	75.9%	95.8%	Average	Total Population
Austin Medical Center- Mayo Health System	35	88.6%	74.1%	95.5%	Average	Total Population
Fairview Health Services	271	88.6%	84.2%	91.8%	Average	Total Population
HealthPartners Clinics	322	88.5%	84.6%	91.6%	Average	Total Population
Allina Health System	69	88.4%	78.8%	94.0%	Average	Total Population
Hennepin Faculty Associates & HCMC Clinics	86	88.4%	79.9%	93.6%	Average	Total Population
North Memorial Clinic	41	87.8%	74.5%	94.7%	Average	Total Population
Allina Medical Clinic	272	87.5%	83.0%	90.9%	Average	Total Population
Aspen Medical Group	72	87.5%	77.9%	93.3%	Average	Total Population
University of Minnesota Physicians	61	86.9%	76.2%	93.2%	Average	Total Population
Mankato Clinic	45	86.7%	73.8%	93.7%	Average	Total Population
Grand Itasca Clinic	43	86.1%	72.7%	93.4%	Average	Total Population
St. Mary's/Duluth Clinic Health System	124	84.7%	77.3%	90.0%	Average	Total Population
Olmsted Medical Center	72	83.3%	73.1%	90.2%	Average	Total Population
MeritCare	102	82.4%	73.8%	88.5%	Below	Total Population
Family HealthServices Minnesota	46	80.4%	66.8%	89.4%	Average	Total Population
Albert Lea Clinic- Mayo Health System	31	77.4%	60.2%	88.6%	Below	Total Population
Buffalo Clinic	30	76.7%	59.1%	88.2%	Below	Total Population
St. Luke's Clinics	36	75.0%	58.9%	86.3%	Below	Total Population

Table 20.2: Asthma Care Rates by Medical Group- Ages 5-17
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#= Pediatric)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		92.3%	91.1%	93.4%		
Alexandria Clinic	42	100.0%	91.6%	100.0%	Average	Total Population
Affiliated Community Medical Centers	40	100.0%	91.2%	100.0%	Average	Total Population
St. Cloud Medical Group	32	100.0%	89.3%	100.0%	Average	Total Population
Fremont Community Clinics	61	98.4%	91.3%	99.7%	Average	Total Population
# Partners in Pediatrics- Children's Physician Network	39	97.4%	86.8%	99.6%	Average	Total Population
# Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	195	96.9%	93.5%	98.6%	Above	Total Population
HealthEast	32	96.9%	84.3%	99.5%	Average	Total Population
CentraCare Health System	52	96.2%	87.0%	98.9%	Average	Total Population
St. Mary's/Duluth Clinic Health System	67	94.0%	85.6%	97.7%	Average	Total Population
Olmsted Medical Center	36	91.7%	78.2%	97.1%	Average	Total Population
Allina Medical Clinic	111	91.0%	84.2%	95.0%	Average	Total Population
Fairview Health Services	117	90.6%	84.0%	94.7%	Average	Total Population
Aspen Medical Group	42	90.5%	77.9%	96.2%	Average	Total Population
HealthPartners Clinics	167	90.4%	85.0%	94.0%	Average	Total Population
Park Nicollet Health Services	62	88.7%	78.5%	94.4%	Average	Total Population
Hennepin Faculty Associates & HCMC Clinics	41	87.8%	74.5%	94.7%	Average	Total Population
University of Minnesota Physicians	31	87.1%	71.2%	94.9%	Average	Total Population
MeritCare	52	78.9%	66.0%	87.8%	Below	Total Population

Table 20.3: Asthma Care Rates by Medical Group- Ages 18-50
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		92.3%	91.1%	93.4%		
Park Nicollet Health Services	67	95.5%	87.6%	98.5%	Above	Total Population
Affiliated Community Medical Centers	40	90.0%	77.0%	96.0%	Average	Total Population
CentraCare Health System	30	90.0%	74.4%	96.5%	Average	Total Population
Hennepin Faculty Associates & HCMC Clinics	45	88.9%	76.5%	95.2%	Average	Total Population
HealthEast	32	87.5%	71.9%	95.0%	Average	Total Population
Fairview Health Services	154	87.0%	80.8%	91.4%	Average	Total Population
Allina Health System	46	87.0%	74.3%	93.9%	Average	Total Population
University of Minnesota Physicians	30	86.7%	70.3%	94.7%	Average	Total Population
HealthPartners Clinics	155	86.5%	80.2%	91.0%	Average	Total Population
MeritCare	50	86.0%	73.8%	93.1%	Average	Total Population
Allina Medical Clinic	161	85.1%	78.8%	89.8%	Average	Total Population
Aspen Medical Group	30	83.3%	66.4%	92.7%	Average	Total Population
Olmsted Medical Center	36	75.0%	58.9%	86.3%	Average	Total Population
St. Mary's/Duluth Clinic Health System	57	73.7%	61.0%	83.4%	Below	Total Population

Table 21: Appropriate Treatment for Children with Upper Respiratory Infection by Medical Group
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#=Pediatric, *=Urgent Care)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		87.9%	87.4%	88.3%		
Cannon Valley Clinic- Mayo Health System	55	100.0%	93.5%	100.0%	Above	Total Population
CCMH- Montevideo Clinic	50	100.0%	92.9%	100.0%	Above	Total Population
Open Cities Health Center	80	98.8%	93.3%	99.8%	Above	Total Population
# Pediatric and Adolescent Services	121	98.4%	94.2%	99.6%	Above	Total Population
NorthPoint Health and Wellness Center	55	98.2%	90.4%	99.7%	Above	Total Population
# Pediatric and Young Adult Med.- Children's Physician Network	104	98.1%	93.3%	99.5%	Above	Total Population
United Hospital District Clinics	50	98.0%	89.5%	99.7%	Above	Total Population
Hennepin Faculty Associates & HCMC Clinics	386	97.9%	96.0%	99.0%	Above	Total Population
University of Minnesota Physicians	454	97.6%	95.7%	98.6%	Above	Total Population
Buffalo Clinic	148	97.3%	93.3%	98.9%	Above	Total Population
CentraCare Health System	246	97.2%	94.2%	98.6%	Above	Total Population
Clearwater Health Services	33	97.0%	84.7%	99.5%	Average	Total Population
Fremont Community Clinics	196	96.9%	93.5%	98.6%	Above	Total Population
HealthPartners Clinics	1,107	96.8%	95.6%	97.7%	Above	Total Population
Aspen Medical Group	200	96.0%	92.3%	98.0%	Above	Total Population
* Express Healthcare	50	96.0%	86.5%	98.9%	Average	Total Population
# Fridley Childs & Teens' Med. Cntrs.- Children's Physician Network	124	96.0%	90.9%	98.3%	Above	Total Population
Allina Medical Clinic	888	96.0%	94.4%	97.1%	Above	Total Population
Mayo Clinic	302	95.4%	92.4%	97.2%	Above	Total Population
* WestHealth Urgent Care	41	95.1%	83.9%	98.7%	Average	Total Population
North Memorial Clinic	253	94.9%	91.4%	97.0%	Above	Total Population
United Family Medicine	76	94.7%	87.2%	97.9%	Average	Total Population
* MinuteClinic	38	94.7%	82.7%	98.5%	Average	Total Population
# South Lake Pediatrics- Children's Physician Network	56	94.6%	85.4%	98.2%	Average	Total Population
# Southdale Pediatric Associates, Ltd.	91	94.5%	87.8%	97.6%	Average	Total Population
# Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	573	94.4%	92.2%	96.0%	Above	Total Population
* Emergency Physicians	196	94.4%	90.2%	96.8%	Above	Total Population
Family Practice Medical Center of Willmar	70	94.3%	86.2%	97.8%	Average	Total Population
West Side Community Health Services	192	94.3%	90.0%	96.8%	Above	Total Population
Hutchinson Medical Center	96	93.8%	87.0%	97.1%	Average	Total Population
# Central Pediatrics	32	93.8%	79.9%	98.3%	Average	Total Population
Lakeview Medical Clinic	46	93.5%	82.5%	97.8%	Average	Total Population
Sleep Eye Medical Center	30	93.3%	78.7%	98.2%	Average	Total Population
# Metropolitan Pediatric Specialists	87	93.1%	85.8%	96.8%	Average	Total Population
HealthEast	215	92.6%	88.3%	95.4%	Above	Total Population
Mid Minnesota Family Medicine Center	67	92.5%	83.7%	96.8%	Average	Total Population
Community University Health Care Center	39	92.3%	79.7%	97.4%	Average	Total Population
Park Nicollet Health Services	730	92.2%	90.0%	93.9%	Above	Total Population
Mille Lacs Clinics	50	92.0%	81.2%	96.9%	Average	Total Population
# Partners in Pediatrics- Children's Physician Network	149	92.0%	86.5%	95.3%	Average	Total Population
Allina Health System	92	91.3%	83.8%	95.5%	Average	Total Population
Fairview Health Services	1,127	90.7%	88.9%	92.2%	Above	Total Population
Gateway Family Health Clinic	64	90.6%	81.0%	95.6%	Average	Total Population
* Chaska Urgent Care	30	90.0%	74.4%	96.5%	Average	Total Population
* Urgent Care Doctor's Office	65	89.2%	79.4%	94.7%	Average	Total Population
Northwest Family Physicians	55	89.1%	78.2%	94.9%	Average	Total Population
Affiliated Community Medical Centers	387	88.9%	85.4%	91.7%	Average	Total Population
Lakeview Clinic, Ltd.	71	88.7%	79.3%	94.2%	Average	Total Population

Table 21: Appropriate Treatment for Children with Upper Respiratory Infection by Medical Group- *continued*
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#= Pediatric, *=Urgent Care)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		87.9%	87.4%	88.3%		
HealthPartners Central Minnesota Clinics	122	88.5%	81.7%	93.0%	Average	Total Population
MeritCare	853	88.4%	86.1%	90.4%	Average	Total Population
Grand Itasca Clinic	257	88.3%	83.8%	91.7%	Average	Total Population
Austin Medical Center- Mayo Health System	179	88.3%	82.7%	92.2%	Average	Total Population
Albert Lea Clinic- Mayo Health System	152	88.2%	82.1%	92.4%	Average	Total Population
Glencoe Regional Health Services	58	87.9%	77.1%	94.0%	Average	Total Population
Stillwater Medical Group	58	87.9%	77.1%	94.0%	Average	Total Population
# Priority Pediatrics Urgent Care	33	87.9%	72.7%	95.2%	Average	Total Population
Lakewood Health Center	146	87.0%	80.6%	91.5%	Average	Total Population
Multicare Associates of the Twin Cities	107	86.9%	79.2%	92.0%	Average	Total Population
Brainerd Medical Center OB/GYN	192	87.0%	81.5%	91.0%	Average	Total Population
Central Lakes Medical Clinic- Northstar Physicians Network	61	86.9%	76.2%	93.2%	Average	Total Population
Quello Clinic	97	86.6%	78.4%	92.0%	Average	Total Population
Altru Health System	119	86.6%	79.3%	91.6%	Average	Total Population
Family Health Services Minnesota	125	86.4%	79.3%	91.3%	Average	Total Population
Fergus Falls Medical Group	87	86.2%	77.4%	91.9%	Average	Total Population
St. Mary's/Duluth Clinic Health System	427	85.5%	81.8%	88.5%	Average	Total Population
Family Health Medical Clinics	41	85.4%	71.6%	93.1%	Average	Total Population
Lake City Medical Center and Clinic- Mayo Health System	39	84.6%	70.3%	92.8%	Average	Total Population
Southside Community Health Services	31	83.9%	67.4%	92.9%	Average	Total Population
BMC & St. Joseph's Medical Center Clinics	167	83.8%	77.5%	88.6%	Average	Total Population
*Suburban Emergency Associates	36	83.3%	68.1%	92.1%	Average	Total Population
Olmsted Medical Center	382	82.2%	78.1%	85.7%	Below	Total Population
Fairview Mesaba Clinics	61	82.0%	70.5%	89.6%	Average	Total Population
St. Cloud Medical Group	92	81.5%	72.4%	88.1%	Average	Total Population
Ridgeview Clinics	31	80.7%	63.7%	90.8%	Average	Total Population
Owatonna Clinic- Mayo Health System	246	80.5%	75.1%	85.0%	Below	Total Population
Paynesville Area Health Care System	56	80.4%	68.2%	88.7%	Average	Total Population
St. Luke's Clinics	89	79.8%	70.3%	86.8%	Below	Total Population
Riverview Clinics	76	79.0%	68.5%	86.6%	Below	Total Population
Unity Family Healthcare- Avon	38	79.0%	63.7%	88.9%	Average	Total Population
Northstar Physicians	103	78.6%	69.8%	85.5%	Below	Total Population
Mankato Clinic	210	78.6%	72.5%	83.6%	Below	Total Population
Immanuel St. Joseph- Mayo Health System	256	78.5%	73.1%	83.1%	Below	Total Population
Apple Valley Medical Clinic	106	78.3%	69.5%	85.1%	Below	Total Population
Riverwood Aitkin Clinic	67	77.6%	66.3%	85.9%	Below	Total Population
North Clinic	35	77.1%	61.0%	87.9%	Average	Total Population
Sanford Clinic	231	76.6%	70.8%	81.6%	Below	Total Population
Wadena Medical Center	138	76.1%	68.3%	82.4%	Below	Total Population
Innovis Health	158	76.0%	68.7%	82.0%	Below	Total Population
Renville County Hospital and Clinics	51	72.6%	59.1%	82.9%	Below	Total Population
Fairmont Medical Center- Mayo Health System	71	71.8%	60.5%	81.0%	Below	Total Population
Glenwood Medical Center	59	62.7%	50.0%	73.9%	Below	Total Population
Alexandria Clinic	91	61.5%	51.3%	70.9%	Below	Total Population
Southern Metro Medical Clinics	39	61.5%	45.9%	75.1%	Below	Total Population
Broadway Medical Center	119	52.9%	44.0%	61.7%	Below	Total Population
Avera Medical Group	418	31.3%	27.1%	35.9%	Below	Total Population

Table 22: Appropriate Testing for Children with Pharyngitis by Medical Group
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#=Pediatric, *=Urgent Care)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		83.7%	82.9%	84.4%		
# Pediatric and Young Adult Med.- Children's Physician Network	85	100.0%	95.7%	100.0%	Above	Total Population
* Express Healthcare	59	100.0%	93.9%	100.0%	Above	Total Population
# Fridley Childrens & Teenagers' Med. Center- Children's Phys. Net.	53	100.0%	93.2%	100.0%	Above	Total Population
Open Cities Health Center	31	100.0%	89.0%	100.0%	Above	Total Population
* MinuteClinic	290	99.7%	98.1%	99.9%	Above	Total Population
West Side Community Health Services	53	98.1%	90.1%	99.7%	Above	Total Population
University of Minnesota Physicians	93	97.9%	92.5%	99.4%	Above	Total Population
Cannon Valley Clinic- Mayo Health System	42	97.6%	87.7%	99.6%	Above	Total Population
HealthPartners Central Minnesota Clinics	39	97.4%	86.8%	99.6%	Above	Total Population
* WestHealth Urgent Care	36	97.2%	85.8%	99.5%	Above	Total Population
Northwest Family Physicians	34	97.1%	85.1%	99.5%	Above	Total Population
Multicare Associates of the Twin Cities	99	97.0%	91.5%	99.0%	Above	Total Population
# Pediatric and Adolescent Services	164	97.0%	93.1%	98.7%	Above	Total Population
* Suburban Emergency Associates	32	96.9%	84.3%	99.5%	Above	Total Population
Glenwood Medical Center	31	96.8%	83.8%	99.4%	Above	Total Population
St. Cloud Medical Group	110	96.4%	91.0%	98.6%	Above	Total Population
# South Lake Pediatrics- Children's Physician Network	55	96.4%	87.7%	99.0%	Above	Total Population
HealthPartners Clinics	301	96.0%	93.2%	97.7%	Above	Total Population
Fremont Community Clinics	122	95.9%	90.8%	98.2%	Above	Total Population
CCMH-Montevideo Clinic	47	95.7%	85.8%	98.8%	Above	Total Population
# Partners in Pediatrics - Children's Physician Network	66	95.5%	87.5%	98.4%	Above	Total Population
Paynesville Area Health Care System	62	95.2%	86.7%	98.3%	Above	Total Population
Aspen Medical Group	103	95.2%	89.1%	97.9%	Above	Total Population
# Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	411	94.7%	92.0%	96.4%	Above	Total Population
* Emergency Physicians	128	93.8%	88.2%	96.8%	Above	Total Population
Buffalo Clinic	62	93.6%	84.6%	97.5%	Above	Total Population
* Now Care Medical Centes	30	93.3%	78.7%	98.2%	Average	Total Population
HealthEast	147	93.2%	87.9%	96.3%	Above	Total Population
Allina Medical Clinic	359	92.8%	89.6%	95.0%	Above	Total Population
Fairview Health Services	468	91.9%	89.1%	94.0%	Above	Total Population
Park Nicollet Health Services	405	91.6%	88.5%	93.9%	Above	Total Population
Gateway Family Health Clinic	46	91.3%	79.7%	96.6%	Average	Total Population
Hennepin Faculty Associates & HMC Clinics	91	91.2%	83.6%	95.5%	Average	Total Population
Quello Clinic	56	91.1%	80.7%	96.1%	Average	Total Population
Lakeview Clinic, Ltd.	47	89.4%	77.4%	95.4%	Average	Total Population
Albert Lea Clinic- Mayo Health System	101	89.1%	81.5%	93.8%	Average	Total Population
Allina Health System	62	88.7%	78.5%	94.4%	Average	Total Population

Table 22: Appropriate Testing for Children with Pharyngitis by Medical Group- *continued*
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		83.7%	82.9%	84.4%		
Apple Valley Medical Clinic	62	88.7%	78.5%	94.4%	Average	Total Population
MeritCare	522	87.2%	84.0%	89.8%	Above	Total Population
Family HealthServices Minnesota	51	84.3%	72.0%	91.8%	Average	Total Population
Hutchinson Medical Center	41	82.9%	68.7%	91.5%	Average	Total Population
Mayo Clinic	114	82.5%	74.5%	88.4%	Average	Total Population
St. Luke's Clinics	68	82.4%	71.6%	89.6%	Average	Total Population
Olmsted Medical Center	221	81.9%	76.3%	86.4%	Average	Total Population
CentraCare Health System	77	81.8%	71.8%	88.9%	Average	Total Population
Owatonna Clinic- Mayo Health System	218	80.3%	74.5%	85.0%	Average	Total Population
Glencoe Regional Health Services	39	79.5%	64.5%	89.2%	Average	Total Population
Austin Medical Center- Mayo Health System	96	79.2%	70.0%	86.1%	Average	Total Population
Alexandria Clinic	79	78.5%	68.2%	86.1%	Average	Total Population
Wadena Medical Center	109	78.0%	69.3%	84.7%	Average	Total Population
Mankato Clinic	127	78.0%	70.0%	84.3%	Average	Total Population
Northstar Physicians	81	76.5%	66.3%	84.4%	Average	Total Population
Affiliated Community Medical Centers	230	74.4%	68.3%	79.6%	Below	Total Population
Sanford Clinic	96	72.9%	63.3%	80.8%	Below	Total Population
Unity Family Healthcare- Avon	36	69.4%	53.1%	82.0%	Below	Total Population
Brainerd Medical Center OB/GYN	156	69.2%	61.6%	75.9%	Below	Total Population
Innovis Health	156	69.2%	61.6%	75.9%	Below	Total Population
North Memorial Clinic	48	68.8%	54.7%	80.1%	Below	Total Population
St. Mary's/Duluth Clinic Health System	177	67.8%	60.6%	74.2%	Below	Total Population
Kittson Memorial Clinic	31	67.7%	50.1%	81.4%	Below	Total Population
Lake City Medical Center and Clinic- Mayo Health System	31	67.7%	50.1%	81.4%	Below	Total Population
Fergus Falls Medical Group	37	64.9%	48.8%	78.2%	Below	Total Population
BMC & St. Joseph's Medical Center Clinics	134	64.2%	55.8%	71.8%	Below	Total Population
Fairview Mesaba Clinics	33	63.6%	46.6%	77.8%	Below	Total Population
Lakeview Medical Clinic	35	62.9%	46.3%	76.8%	Below	Total Population
Immanuel St. Joseph- Mayo Health System	138	58.7%	50.4%	66.6%	Below	Total Population
Lakewood Health Center	82	56.1%	45.3%	66.3%	Below	Total Population
Broadway Medical Center	72	55.6%	44.1%	66.5%	Below	Total Population
Fairmont Medical Center- Mayo Health System	43	53.5%	38.9%	67.5%	Below	Total Population
Altru Health System	72	45.8%	34.8%	57.3%	Below	Total Population
Avera Medical Group	166	38.0%	30.9%	45.5%	Below	Total Population
Riverview Clinics	50	30.0%	19.1%	43.8%	Below	Total Population
ELEAH Medical Center	30	20.0%	9.5%	37.3%	Below	Total Population

Table 23: Breast Cancer Screening by Medical Group
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (^=OB/GYN)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		66.5%	65.5%	67.4%		
Quello Clinic	32	84.4%	68.3%	93.1%	Above	Total Population
Fairview Mesaba Clinics	42	83.3%	69.4%	91.7%	Above	Total Population
North Clinic	37	81.1%	65.8%	90.5%	Average	Total Population
Austin Medical Center- Mayo Health System	95	81.1%	72.0%	87.7%	Above	Total Population
HealthPartners Clinics	581	80.7%	77.3%	83.7%	Above	Total Population
NorthPoint Health and Wellness Center	31	77.4%	60.2%	88.6%	Average	Total Population
Alexandria Clinic	95	76.8%	67.4%	84.2%	Above	Total Population
Buffalo Clinic	69	76.8%	65.6%	85.2%	Average	Total Population
Family Practice Medical Center of Willmar	43	76.7%	62.3%	86.9%	Average	Total Population
Glencoe Regional Health Services	30	76.7%	59.1%	88.2%	Average	Total Population
Park Nicollet Health Services	360	75.8%	71.2%	80.0%	Above	Total Population
Grand Itasca Clinic	74	75.7%	64.8%	84.0%	Average	Total Population
Owatonna Clinic- Mayo Health System	129	75.2%	67.1%	81.9%	Above	Total Population
Mayo Clinic	188	74.5%	67.8%	80.2%	Above	Total Population
Central Lakes Medical Clinic- Northstar Physicians	78	74.4%	63.7%	82.7%	Average	Total Population
Immanuel St. Joseph- Mayo Health System	147	74.2%	66.5%	80.6%	Above	Total Population
Allina Health System	184	72.8%	66.0%	78.7%	Average	Total Population
MeritCare	496	71.6%	67.5%	75.4%	Above	Total Population
Lakeview Clinic, Ltd.	49	71.4%	57.6%	82.2%	Average	Total Population
Multicare Associates of the Twin Cities	59	71.2%	58.6%	81.2%	Average	Total Population
Hennepin Faculty Associates & HCMC Clinics	169	71.0%	63.8%	77.3%	Average	Total Population
Fremont Community Clinics	58	70.7%	58.0%	80.8%	Average	Total Population
Olmsted Medical Center	173	70.5%	63.3%	76.8%	Average	Total Population
St. Luke's Clinics	71	70.4%	59.0%	79.8%	Average	Total Population
Bloomington Lake Clinic, Ltd.	37	70.3%	54.2%	82.5%	Average	Total Population
Riverwood Aitkin Clinic	66	69.7%	57.8%	79.5%	Average	Total Population
Gundersen Clinic	59	69.5%	56.9%	79.8%	Average	Total Population
Aspen Medical Group	177	68.9%	61.8%	75.3%	Average	Total Population
Mankato Clinic	103	68.9%	59.5%	77.1%	Average	Total Population
Mille Lacs Clinics	45	68.9%	54.3%	80.5%	Average	Total Population
Avera Medical Group	118	68.6%	59.8%	76.3%	Average	Total Population
^ Brainerd Medical Center OB/GYN	70	68.6%	57.0%	78.2%	Average	Total Population
Fergus Falls Medical Group	81	67.9%	57.1%	77.1%	Average	Total Population

Table 23: Breast Cancer Screening by Medical Group- *continued*
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		66.5%	65.5%	67.4%		
Fairmont Medical Center- Mayo Health System	65	67.7%	55.6%	77.8%	Average	Total Population
Fairview Health Services	698	66.9%	63.3%	70.3%	Average	Total Population
Broadway Medical Center	57	66.7%	53.7%	77.5%	Average	Total Population
St. Mary's/Duluth Clinic Health System	220	66.4%	59.9%	72.3%	Average	Total Population
Winona Health	68	66.2%	54.3%	76.3%	Average	Total Population
Paynesville Area Health Care System	35	65.7%	49.2%	79.2%	Average	Total Population
Altru Health System	119	65.6%	56.6%	73.5%	Average	Total Population
Allina Medical Clinic	719	64.8%	61.3%	68.2%	Average	Total Population
Northstar Physicians	128	64.1%	55.5%	71.9%	Average	Total Population
Ridgeview Clinics	49	63.3%	49.3%	75.3%	Average	Total Population
CentraCare Health System	195	62.6%	55.6%	69.1%	Average	Total Population
Community University Health Care Center	48	62.5%	48.4%	74.8%	Average	Total Population
Affiliated Community Medical Centers	294	62.2%	56.6%	67.6%	Average	Total Population
Albert Lea Clinic- Mayo Health System	142	62.0%	53.8%	69.5%	Average	Total Population
North Memorial Clinic	92	62.0%	51.8%	71.2%	Average	Total Population
Innovis Health	176	61.9%	54.6%	68.8%	Average	Total Population
HealthEast	126	61.9%	53.2%	69.9%	Average	Total Population
Wadena Medical Center	87	60.9%	50.4%	70.5%	Average	Total Population
Lakewood Health Center	92	59.8%	49.6%	69.2%	Average	Total Population
Sanford Clinic	95	59.0%	48.9%	68.3%	Average	Total Population
Hutchinson Medical Center	51	58.8%	45.2%	71.3%	Average	Total Population
Family HealthServices Minnesota	149	57.7%	49.7%	65.4%	Below	Total Population
BMC & St. Joseph's Medical Center Clinics	158	57.0%	49.2%	64.4%	Below	Total Population
Family Medicine of Winona	37	56.8%	40.9%	71.3%	Average	Total Population
St. Cloud Medical Group	106	53.8%	44.3%	63.0%	Below	Total Population
University of Minnesota Physicians	147	53.7%	45.7%	61.6%	Below	Total Population
Open Cities Health Center	70	50.0%	38.6%	61.4%	Below	Total Population
West Side Community Health Services	54	50.0%	37.1%	62.9%	Average	Total Population
Stillwater Medical Group	41	48.8%	34.3%	63.5%	Below	Total Population
Gateway Family Health Clinic	61	45.9%	34.0%	58.3%	Below	Total Population
United Family Medicine	62	45.2%	33.4%	57.5%	Below	Total Population

Table 24: Cervical Cancer Screening by Medical Group
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (^=OB/GYN)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		74.6%	74.2%	75.0%		
^ John A. Haugen Associates	37	100.0%	90.6%	100.0%	Above	Total Population
^ Southdale OB/GYN Consultants	39	97.4%	86.8%	99.6%	Above	Total Population
^ Obstetrics, Gyn & Infertility	65	96.9%	89.5%	99.2%	Above	Total Population
^ Women's Health Consultants	39	94.9%	83.1%	98.6%	Above	Total Population
^ Partners OB/GYN	36	94.4%	81.9%	98.5%	Above	Total Population
^ Oakdale OB/GYN	88	92.1%	84.5%	96.1%	Above	Total Population
^ Metropolitan OB/GYN	49	91.8%	80.8%	96.8%	Above	Total Population
^ Obstetrics & Gynecology Associates	94	91.5%	84.1%	95.6%	Above	Total Population
Family Practice Medical Center Of Willmar	161	83.2%	76.7%	88.2%	Above	Total Population
Quello Clinic	201	83.1%	77.3%	87.6%	Above	Total Population
HealthPartners Central Minnesota Clinics	313	82.1%	77.5%	86.0%	Above	Total Population
CentraCare Health System	892	81.6%	78.9%	84.0%	Above	Total Population
^ Brainerd Medical Center OB/GYN	328	81.4%	76.8%	85.2%	Above	Total Population
Edina Family Physicians	46	80.4%	66.8%	89.4%	Average	Total Population
Aspen Medical Group	853	80.3%	77.5%	82.8%	Above	Total Population
HealthPartners Clinics	4,190	80.2%	79.0%	81.4%	Above	Total Population
Lakeview Medical Clinic	90	80.0%	70.6%	87.0%	Average	Total Population
Dawson Clinic	35	80.0%	64.1%	90.0%	Average	Total Population
Glencoe Regional Health Services	102	79.4%	70.6%	86.1%	Average	Total Population
Lakewood Health Center	362	79.3%	74.8%	83.1%	Above	Total Population
Alexandria Clinic	231	79.2%	73.5%	84.0%	Average	Total Population
Avera Medical Group	300	79.0%	74.0%	83.2%	Average	Total Population
Silver Lake Clinic	70	78.6%	67.6%	86.6%	Average	Total Population
Lakeview Clinic, Ltd.	233	78.5%	72.8%	83.3%	Average	Total Population
Cannon Valley Clinic- Mayo Health System	116	78.5%	70.1%	85.0%	Average	Total Population
Mankato Clinic	617	78.4%	75.0%	81.5%	Above	Total Population
Planned Parenthood Of MN, ND, SD	165	78.2%	71.3%	83.8%	Average	Total Population
Central Lakes Medical Clinic- Northstar Physician	269	78.1%	72.8%	82.6%	Average	Total Population
Buffalo Clinic	410	78.1%	73.8%	81.8%	Average	Total Population
Northstar Physicians	525	77.9%	74.2%	81.2%	Average	Total Population
Fairview Health Services	3,873	77.8%	76.4%	79.1%	Above	Total Population
Park Nicollet Health Services	2,484	77.6%	75.9%	79.2%	Above	Total Population
St. Cloud Medical Group	426	77.2%	73.0%	81.0%	Average	Total Population
Mayo Clinic	636	76.7%	73.3%	79.9%	Average	Total Population
Fremont Community Clinics	424	76.7%	72.4%	80.4%	Average	Total Population
Owatonna Clinic- Mayo Health System	383	76.2%	71.7%	80.2%	Average	Total Population
Sanford Clinic	411	76.2%	71.8%	80.0%	Average	Total Population
North Clinic	201	76.1%	69.8%	81.5%	Average	Total Population
Austin Medical Center- Mayo Health System	416	76.0%	71.6%	79.8%	Average	Total Population
Allina Medical Clinic	3,945	75.6%	74.3%	77.0%	Average	Total Population
Affiliated Community Medical Centers	1,115	75.2%	72.5%	77.6%	Average	Total Population
United Family Medicine	404	75.0%	70.6%	79.0%	Average	Total Population
Community University Health Care Center	200	75.0%	68.6%	80.5%	Average	Total Population
Clearwater Health Services	52	75.0%	61.8%	84.8%	Average	Total Population
Hennepin Faculty Associates & HCMC Clinics	1,119	74.9%	72.3%	77.3%	Average	Total Population
St. Mary's/Duluth Clinic Health System	1,352	74.9%	72.5%	77.1%	Average	Total Population
Immanuel St. Joseph- Mayo Health System	559	74.8%	71.0%	78.2%	Average	Total Population
Altru Health System	448	74.8%	70.6%	78.6%	Average	Total Population
Northwest Family Physicians	122	74.6%	66.2%	81.5%	Average	Total Population
Mid Minnesota Family Medicine Center	204	74.5%	68.1%	80.0%	Average	Total Population
Family Medicine of Winona	98	74.5%	65.1%	82.1%	Average	Total Population
Family HealthServices Minnesota	639	74.3%	70.8%	77.6%	Average	Total Population
Lac Qui Parle Clinic	31	74.2%	56.8%	86.3%	Average	Total Population
MeritCare	1,764	73.9%	71.8%	75.9%	Average	Total Population
Multicare Associates of the Twin Cities	387	73.6%	69.0%	77.8%	Average	Total Population
NorthPoint Health And Wellness Center	309	73.5%	68.3%	78.1%	Average	Total Population
Bloomington Lake Clinic, Ltd.	158	73.4%	66.0%	79.7%	Average	Total Population

Table 24: Cervical Cancer Screening by Medical Group- *continued*
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (* = Urgent Care)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		74.6%	74.2%	75.0%		
Stillwater Medical Group	229	73.4%	67.3%	78.7%	Average	Total Population
Renville County Hospital And Clinics	45	73.3%	59.0%	84.0%	Average	Total Population
Innovis Health	629	72.8%	69.2%	76.1%	Average	Total Population
Riverwood Aitkin Clinic	239	72.8%	66.8%	78.1%	Average	Total Population
Allina Health System	1,095	72.7%	70.0%	75.3%	Average	Total Population
University of Minnesota Physicians	1,267	72.6%	70.1%	75.0%	Average	Total Population
Winona Health	230	72.6%	66.5%	78.0%	Average	Total Population
Fairview Mesaba Clinics	236	72.5%	66.4%	77.8%	Average	Total Population
Olmsted Medical Center	849	72.0%	68.9%	74.9%	Average	Total Population
Paynesville Area Health Care System	148	71.6%	63.9%	78.3%	Average	Total Population
Ridgeview Clinics	162	71.6%	64.2%	78.0%	Average	Total Population
Indian Health Board of Minneapolis	63	71.4%	59.3%	81.1%	Average	Total Population
Stevens Community Medical Center- Morris	49	71.4%	57.6%	82.2%	Average	Total Population
HealthEast	884	71.0%	68.0%	73.9%	Below	Total Population
West Side Community Health Services	340	70.9%	65.8%	75.5%	Average	Total Population
Southside Community Health Services	88	70.5%	60.2%	79.0%	Average	Total Population
North Memorial Clinic	656	70.3%	66.7%	73.7%	Below	Total Population
St. Luke's Clinics	381	69.6%	64.8%	74.0%	Below	Total Population
* Now Care Medical Centers	59	69.5%	56.9%	79.8%	Average	Total Population
Lake City Medical Center And Clinic- Mayo Health	91	69.2%	59.1%	77.8%	Average	Total Population
FamilyHealth Medical Clinics	61	68.9%	56.4%	79.1%	Average	Total Population
Southern Metro Medical Clinics	54	68.5%	55.3%	79.3%	Average	Total Population
Cannon Falls Medical Center- Mayo Health System	38	68.4%	52.5%	80.9%	Average	Total Population
CCMH- Montevideo Clinic	82	68.3%	57.6%	77.4%	Average	Total Population
Open Cities Health Center	372	68.3%	63.4%	72.8%	Below	Total Population
Wadena Medical Center	306	68.0%	62.6%	73.0%	Below	Total Population
Broadway Medical Center	131	67.9%	59.5%	75.3%	Average	Total Population
Gundersen Clinic	165	67.9%	60.4%	74.5%	Below	Total Population
Mille Lacs Clinics	121	67.8%	59.0%	75.4%	Average	Total Population
St. Croix Regional Medical Center	31	67.7%	50.1%	81.4%	Average	Total Population
SuperiorHealth Center	34	67.7%	50.8%	80.9%	Average	Total Population
Kittson Memorial Clinic	37	67.6%	51.5%	80.4%	Average	Total Population
Fergus Falls Medical Group	304	67.1%	61.6%	72.1%	Below	Total Population
Franciscan Skemp- Mayo Health System	76	67.1%	55.9%	76.6%	Average	Total Population
Riverview Clinics	115	67.0%	57.9%	74.9%	Average	Total Population
Hutchinson Medical Center	148	66.9%	59.0%	74.0%	Below	Total Population
Scenic Rivers Health Services	42	66.7%	51.6%	79.0%	Average	Total Population
Fairmont Medical Center- Mayo Health System	219	66.2%	59.7%	72.2%	Below	Total Population
Gateway Family Health Clinic	227	64.8%	58.3%	70.7%	Below	Total Population
ELEAH Medical Center	48	64.6%	50.4%	76.6%	Average	Total Population
Apple Valley Medical Clinic	116	63.8%	54.7%	72.0%	Below	Total Population
Albert Lea Clinic- Mayo Health System	409	63.1%	58.3%	67.6%	Below	Total Population
BMC & St. Joseph's Medical Center Clinics	445	62.0%	57.4%	66.4%	Below	Total Population
Parkview Medical Clinic	33	60.6%	43.7%	75.3%	Average	Total Population
Glenwood Medical Center	43	60.5%	45.6%	73.6%	Below	Total Population
United Hospital District Clinics	58	60.3%	47.5%	71.9%	Below	Total Population
Unity Family Healthcare- Avon	65	60.0%	47.9%	71.0%	Below	Total Population
Williams IntegraCare Clinic	51	58.8%	45.2%	71.3%	Below	Total Population
Lakewood Health Center	58	58.6%	45.8%	70.4%	Below	Total Population
Grand Itasca Clinic	70	58.6%	46.9%	69.4%	Below	Total Population
St. Paul Family Medical Center	50	58.0%	44.2%	70.6%	Below	Total Population
Foley Medical Center	45	57.8%	43.3%	71.0%	Below	Total Population
Cedar Riverside People's Center	131	57.3%	48.7%	65.4%	Below	Total Population
Murray County Clinic	39	56.4%	41.0%	70.7%	Below	Total Population
Johnson Street Clinic	55	50.9%	38.1%	63.6%	Below	Total Population
* MinuteClinic	85	48.2%	37.9%	58.7%	Below	Total Population
Dr. Bobby K. Yang Medical Clinic	42	28.6%	17.2%	43.6%	Below	Total Population

Table 25: Colorectal Cancer Screening by Medical Group
(Minnesota Health Care Programs with 60+ patients in sample)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		50.4%	48.8%	52.0%		
HealthEast	64	64.3%	52.1%	74.9%	Above	Sample
Austin Medical Center- Mayo Health System	63	61.4%	49.0%	72.4%	Average	Sample
St. Mary's/Duluth Clinic Health System	66	61.2%	49.1%	72.0%	Average	Sample
HealthPartners Clinics	236	60.7%	54.3%	66.7%	Above	Sample
Mayo Clinic	76	60.5%	49.3%	70.8%	Average	Sample
Immanuel St. Joseph- Mayo Health System	90	59.7%	49.4%	69.3%	Average	Sample
Owatonna Clinic- Mayo Health System	87	58.6%	48.1%	68.4%	Average	Sample
CentraCare Health System	62	55.8%	43.5%	67.5%	Average	Sample
Fairview Health Services	194	52.8%	45.8%	59.7%	Average	Sample
Hennepin Faculty Associates & HCMC Clinics	209	52.8%	46.0%	59.5%	Average	Sample
Affiliated Community Medical Centers	67	52.2%	40.4%	63.7%	Average	Sample
Mankato Clinic	66	51.9%	40.1%	63.5%	Average	Sample
Allina Medical Clinic	169	49.5%	42.0%	56.9%	Average	Sample
Northstar Physicians	61	49.2%	37.1%	61.4%	Average	Sample
Aspen Medical Group	65	48.7%	37.0%	60.6%	Average	Sample
Park Nicollet Health Services	99	48.6%	39.0%	58.3%	Average	Sample
BMC & St. Joseph's Medical Center Clinics	62	48.4%	36.4%	60.6%	Average	Sample
St. Luke's Clinics	66	48.2%	36.5%	60.0%	Average	Sample
Allina Health System	104	46.7%	37.4%	56.3%	Average	Sample
North Memorial Clinic	66	46.1%	34.6%	58.0%	Average	Sample
Olmsted Medical Center	66	46.1%	34.6%	58.0%	Average	Sample
Altru Health System	65	46.1%	34.5%	58.1%	Average	Sample
Family HealthServices Minnesota	65	43.0%	31.7%	55.1%	Average	Sample
University Of Minnesota Physicians	66	41.7%	30.6%	53.8%	Average	Sample
Open Cities Health Center	62	34.9%	24.2%	47.3%	Below	Sample
West Side Community Health Services	64	29.7%	19.9%	41.8%	Below	Sample

Table 26: Chlamydia Screening by Medical Group
(Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (#=Pediatric, ^=OB/GYN)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		57.5%	56.7%	58.3%		
Hennepin Faculty Associates & HCMC Clinics	249	82.7%	77.6%	86.9%	Above	Total Population
NorthPoint Health and Wellness Center	178	82.6%	76.3%	87.5%	Above	Total Population
Face to Face Health & Counseling	85	81.2%	71.6%	88.1%	Above	Total Population
^ Oakdale OB/GYN	39	79.5%	64.5%	89.2%	Above	Total Population
Fremont Community Clinics	183	78.7%	72.2%	84.0%	Above	Total Population
HealthPartners Clinics	1,157	76.5%	74.0%	78.8%	Above	Total Population
Lakeview Clinic, Ltd.	56	75.0%	62.3%	84.5%	Above	Total Population
United Family Medicine	95	73.7%	64.0%	81.5%	Above	Total Population
Open Cities Health Center	100	71.0%	61.5%	79.0%	Above	Total Population
North Memorial Clinic	173	69.4%	62.1%	75.8%	Above	Total Population
Park Nicollet Health Services	510	67.8%	63.7%	71.8%	Above	Total Population
Allina Medical Clinic	979	67.2%	64.2%	70.1%	Above	Total Population
Aspen Medical Group	205	64.9%	58.1%	71.1%	Above	Total Population
Allina Health System	261	64.8%	58.8%	70.3%	Above	Total Population
Planned Parenthood of MN, ND, SD	159	64.2%	56.4%	71.2%	Average	Total Population
University of Minnesota Physicians	414	64.0%	59.3%	68.5%	Above	Total Population
Community University Health Care Center	78	62.8%	51.7%	72.7%	Average	Total Population
Fairview Health Services	892	61.9%	58.7%	65.0%	Above	Total Population
# Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	170	61.2%	53.7%	68.2%	Average	Total Population
Family Practice Medical Center of Willmar	54	61.1%	47.8%	73.0%	Average	Total Population
Gundersen Clinic	41	61.0%	45.7%	74.3%	Average	Total Population
Stillwater Medical Group	51	60.8%	47.1%	73.0%	Average	Total Population
Mayo Clinic	135	60.7%	52.3%	68.6%	Average	Total Population
Multicare Associates of the Twin Cities	89	59.6%	49.2%	69.2%	Average	Total Population
St. Luke's Clinics	126	59.5%	50.8%	67.7%	Average	Total Population
Quello Clinic	44	59.1%	44.4%	72.3%	Average	Total Population
HealthEast	237	59.1%	52.7%	65.1%	Average	Total Population
HealthPartners Central MN Clinics	95	59.0%	48.9%	68.3%	Average	Total Population
Grand Itasca Clinic	124	58.9%	50.1%	67.1%	Average	Total Population
Mid Minnesota Family Medicine Center	56	57.1%	44.1%	69.2%	Average	Total Population
Mankato Clinic	175	56.0%	48.6%	63.2%	Average	Total Population
Albert Lea Clinic- Mayo Health System	115	55.7%	46.5%	64.4%	Average	Total Population
Affiliated Community Medical Centers	380	55.3%	50.2%	60.2%	Average	Total Population
St. Mary's/Duluth Clinic Health System	400	55.3%	50.4%	60.1%	Average	Total Population
CentraCare Health System	225	54.7%	48.1%	61.0%	Average	Total Population
Winona Health	86	53.5%	43.0%	63.7%	Average	Total Population

Table 26: Chlamydia Screening by Medical Group- *continued*
 (Minnesota Health Care Programs with 30+ patients in denominator)

Medical Group Name (^=OB/GYN)	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		57.5%	56.7%	58.3%		
Immanuel St. Joseph- Mayo Health System	154	53.3%	45.4%	61.0%	Average	Total Population
^ Brainerd Medical Center OB/GYN	109	53.2%	43.9%	62.3%	Average	Total Population
Glencoe Regional Health Services	47	53.2%	39.2%	66.7%	Average	Total Population
Ridgeview Clinics	32	53.1%	36.5%	69.1%	Average	Total Population
United Hospital District Clinics	38	52.6%	37.3%	67.5%	Average	Total Population
Austin Medical Center- Mayo Health System	118	52.5%	43.6%	61.3%	Average	Total Population
Buffalo Clinic	100	52.0%	42.3%	61.5%	Average	Total Population
St. Cloud Medical Group	127	52.0%	43.4%	60.5%	Average	Total Population
Olmsted Medical Center	201	51.7%	44.9%	58.6%	Average	Total Population
Cannon Valley Clinic- Mayo Health System	37	51.4%	35.9%	66.6%	Average	Total Population
Dr. Bobby K. Yang Medical Clinic	60	50.0%	37.7%	62.3%	Average	Total Population
Owatonna Clinic- Mayo Health System	111	49.6%	40.4%	58.7%	Average	Total Population
North Clinic	41	48.8%	34.3%	63.5%	Average	Total Population
Northstar Physicians	163	47.9%	40.3%	55.5%	Below	Total Population
Fairview Mesaba Clinics	82	47.6%	37.1%	58.2%	Average	Total Population
Gateway Family Health Clinic	57	47.4%	35.0%	60.1%	Average	Total Population
BMC & St. Joseph's Medical Center Clinics	83	44.6%	34.4%	55.3%	Below	Total Population
West Side Community Health Services	358	44.4%	39.4%	49.6%	Below	Total Population
Innovis Health	160	44.4%	36.9%	52.1%	Below	Total Population
Lakewood Health Center	87	42.5%	32.7%	53.0%	Below	Total Population
Hutchinson Medical Center	64	42.2%	30.9%	54.4%	Below	Total Population
Riverwood Aitkin Clinic	49	40.8%	28.2%	54.8%	Below	Total Population
Sanford Clinic	108	40.7%	32.0%	50.2%	Below	Total Population
Central Lakes Medical Clinic- Northstar Physicians Network	61	39.3%	28.1%	51.9%	Below	Total Population
Fergus Falls Medical Group	82	39.0%	29.2%	49.9%	Below	Total Population
Avera Medical Group	97	35.1%	26.3%	45.0%	Below	Total Population
Paynesville Area Health Care System	47	34.0%	22.2%	48.3%	Below	Total Population
Riverview Clinics	30	33.3%	19.2%	51.2%	Below	Total Population
MeritCare	575	32.7%	29.0%	36.6%	Below	Total Population
Altru Health System	127	32.3%	24.8%	40.8%	Below	Total Population
Fairmont Medical Center- Mayo Health System	54	27.8%	17.6%	40.9%	Below	Total Population
Family Medicine of Winona	36	27.8%	15.9%	44.0%	Below	Total Population
Broadway Medical Center	58	27.6%	17.8%	40.2%	Below	Total Population
Alexandria Clinic	88	27.3%	19.1%	37.4%	Below	Total Population
Wadena Medical Center	72	16.7%	9.8%	26.9%	Below	Total Population

Table 27: Childhood Immunization Status (Combo 3) by Medical Group
(Minnesota Health Care Programs with 60+ patients in denominator)

Medical Group Name	N	Rate	Lower Bound of 95% Confidence Interval	Upper Bound of 95% Confidence Interval	Rating	Total Population or Sample (of MHCP patients)
Medical Group Average		76.9%	75.6%	78.1%		
Grand Itasca Clinic	91	89.1%	81.1%	94.0%	Above	Sample
HealthEast	63	87.7%	77.4%	93.7%	Above	Sample
Mayo Clinic	63	87.6%	77.3%	93.6%	Above	Sample
Fridley Childs & Teens' Med. Cntrs.- Children's Physician Network	61	86.9%	76.2%	93.2%	Average	Sample
Park Nicollet Health Services	128	86.0%	79.0%	91.0%	Above	Sample
Aspen Medical Group	63	85.9%	75.3%	92.5%	Average	Sample
Avera Medical Group	63	84.7%	73.8%	91.6%	Average	Sample
Metropolitan Pediatric Specialists	63	84.5%	73.6%	91.4%	Average	Sample
Olmsted Medical Center	63	84.5%	73.6%	91.4%	Average	Sample
Sanford Clinic	63	84.1%	73.2%	91.1%	Average	Sample
Altru Health System	63	82.6%	71.5%	90.0%	Average	Sample
Healthpartners Clinics	276	82.4%	77.5%	86.4%	Above	Sample
Alexandria Clinic	63	82.0%	70.8%	89.5%	Average	Sample
Centracare Health System	63	81.6%	70.3%	89.3%	Average	Sample
Immanuel St. Joseph- Mayo Health System	67	81.0%	70.0%	88.6%	Average	Sample
Hennepin Faculty Associates & HCMC Clinics	189	80.9%	74.7%	85.9%	Average	Sample
United Family Medicine	61	80.3%	68.7%	88.4%	Average	Sample
Allina Medical Clinic	169	80.0%	73.3%	85.3%	Average	Sample
Mankato Clinic	64	79.3%	67.9%	87.5%	Average	Sample
NorthPoint Health and Wellness Center	63	78.9%	67.3%	87.1%	Average	Sample
Multicare Associates of the Twin Cities	63	77.9%	66.2%	86.3%	Average	Sample
St. Mary's/Duluth Clinic Health System	83	77.1%	67.0%	84.8%	Average	Sample
Family Healthservices Minnesota	63	76.3%	64.5%	85.1%	Average	Sample
University Of Minnesota Physicians	73	75.9%	64.9%	84.2%	Average	Sample
Pediatric And Young Adult Med.- Children's Physician Network	63	75.8%	63.9%	84.7%	Average	Sample
Fairview Health Services	159	75.2%	68.0%	81.3%	Average	Sample
Partners In Pediatrics- Children's Physician Network	63	75.0%	63.1%	84.1%	Average	Sample
Affiliated Community Medical Centers	95	74.6%	65.0%	82.3%	Average	Sample
Meritcare	144	74.6%	66.9%	81.0%	Average	Sample
St. Cloud Medical Group	63	73.5%	61.5%	82.8%	Average	Sample
Innovis Health	63	70.8%	58.6%	80.6%	Average	Sample
Northstar Physicians	63	68.8%	56.6%	78.9%	Average	Sample
Austin Medical Center- Mayo Health System	63	68.7%	56.4%	78.8%	Average	Sample
Owatonna Clinic- Mayo Health System	64	67.2%	55.0%	77.4%	Average	Sample
Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	142	66.9%	58.8%	74.1%	Below	Sample
West Side Community Health Services	62	66.4%	54.0%	76.9%	Average	Sample
Buffalo Clinic	63	65.4%	53.0%	75.9%	Below	Sample

Appendix 4: Medical Group Performance Over Time (3-Years)

**Table 28: Controlling High Blood Pressure -
Rate Changes for Reporting Years 2008-2010**

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
Park Nicollet Health Services	69.8%	73.7%	80.1%	3.9%	6.5%	10.3%	Consistently Improved
St. Mary's/Duluth Clinic Health System	59.1%	67.9%	71.7%	8.8%	3.8%	12.6%	Consistently Improved
CentraCare Health System	70.8%	73.1%	77.0%	2.3%	3.9%	6.1%	Consistently Improved
HealthPartners Clinics	70.8%	73.5%	74.7%	2.6%	1.3%	3.9%	Variable Improvement
Fairview Health Services	67.2%	63.2%	72.2%	-4.0%	9.0%	5.0%	Variable Improvement
HealthEast	73.7%	77.5%	76.0%	3.8%	-1.5%	2.3%	Variable Improvement
MeritCare	59.0%	62.9%	63.7%	4.0%	0.8%	4.8%	Variable Improvement
Affiliated Community Medical Centers	70.6%	69.8%	77.2%	-0.8%	7.4%	6.6%	Variable Improvement
Allina Medical Clinic	69.9%	70.4%	76.6%	0.4%	6.3%	6.7%	Variable Improvement
Aspen Medical Group	66.0%	59.0%	64.3%	-7.0%	5.4%	-1.6%	Variable Decline
University Of Minnesota Physicians	60.8%	62.0%	55.6%	1.2%	-6.3%	-5.2%	Variable Decline
Olmsted Medical Center	77.2%	65.7%	71.1%	-11.5%	5.4%	-6.1%	Variable Decline
Northstar Physicians	63.5%	62.1%	58.7%	-1.4%	-3.4%	-4.8%	Variable Decline

* = $p_{\text{trend}} < 0.05$

Table 29: Appropriate Treatment for Children with Upper Respiratory Infection - Rate Changes for Reporting Years 2008-2010

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
CentraCare Health System	77.7%	89.9%	97.2%	12.3%	7.2%	19.5%	Consistently Improved
Altru Health System	64.5%	73.8%	86.6%	9.3%	12.8%	22.0%	Consistently Improved
Central Lakes Medical Clinic- Northstar Physicians	62.5%	71.9%	86.9%	9.4%	15.0%	24.4%	Consistently Improved
Lakewood Health Center	66.7%	79.9%	87.0%	13.2%	7.1%	20.3%	Consistently Improved
Allina Medical Clinic	89.1%	92.8%	96.0%	3.7%	3.2%	6.9%	Consistently Improved
HealthPartners Clinics	96.6%	96.5%	96.8%	-0.1%	0.4%	0.3%	Relatively Stable
Park Nicollet Health Services	91.7%	92.7%	92.2%	1.0%	-0.5%	0.5%	Relatively Stable
Fariview Health Services	90.8%	89.9%	90.7%	-0.9%	0.8%	-0.1%	Relatively Stable
North Memorial Clinic	95.6%	95.0%	94.9%	-0.6%	-0.2%	-0.7%	Relatively Stable
MeritCare	90.1%	90.0%	88.4%	-0.1%	-1.6%	-1.7%	Relatively Stable
University of Minnesota Physicians	97.4%	95.7%	97.6%	-1.6%	1.9%	0.2%	Relatively Stable
Northwest Family Physicians	90.3%	90.0%	89.1%	-0.3%	-0.9%	-1.2%	Relatively Stable
Mayo Clinic	94.3%	93.9%	95.4%	-0.3%	1.4%	1.1%	Relatively Stable
Apple Valley Medical Clinic	78.1%	76.9%	78.3%	-1.1%	1.4%	0.3%	Relatively Stable
United Family Medicine	94.9%	95.5%	94.7%	0.5%	-0.7%	-0.2%	Relatively Stable
MinuteClinic	91.5%	93.2%	94.7%	1.7%	1.6%	3.3%	Relatively Stable
Express HealthCare	92.7%	94.6%	96.0%	1.9%	1.4%	3.3%	Relatively Stable
Aspen Medical Group	90.9%	92.3%	96.0%	1.4%	3.7%	5.1%	Variable Improvement
Family HealthServices Minnesota	86.2%	90.2%	86.4%	4.0%	-3.8%	0.2%	Variable Improvement
St. Mary's/Duluth Clinic Health System	78.8%	85.5%	85.5%	6.7%	0.0%	6.7%	Variable Improvement
HealthEast	90.7%	93.6%	92.6%	2.9%	-1.0%	1.9%	Variable Improvement
Affiliated Community Medical Cetners	84.7%	89.8%	88.9%	5.1%	-0.9%	4.2%	Variable Improvement
Ridgeview Clinics	79.5%	73.3%	80.7%	-6.2%	7.3%	1.2%	Variable Improvement
Buffalo Clinic	92.9%	91.9%	97.3%	-1.0%	5.5%	4.4%	Variable Improvement
St. Cloud Medical Group	78.0%	87.6%	81.5%	9.6%	-6.1%	3.5%	Variable Improvement
Hutchinson Medical Center	89.2%	94.3%	93.8%	5.1%	-0.5%	4.6%	Variable Improvement
Family Practice Medical Center of Willmar	90.5%	97.1%	94.3%	6.6%	-2.8%	3.8%	Variable Improvement
St. Luke's Clinics	79.0%	72.3%	79.8%	-6.8%	7.5%	0.7%	Variable Improvement
Fairview Mesaba Clinics	73.7%	84.3%	82.0%	10.7%	-2.4%	8.3%	Variable Improvement
Wadena Medical Center	70.9%	68.0%	76.1%	-2.9%	8.1%	5.2%	Variable Improvement
Avera Medical Group	28.8%	31.1%	31.3%	2.3%	0.2%	2.6%	Variable Improvement
BMC & St. Joseph's Medical Center Clinics	83.1%	90.6%	83.8%	7.6%	-6.8%	0.8%	Variable Improvement
Allina Health System	90.5%	93.4%	91.3%	2.9%	-2.1%	0.8%	Variable Improvement
Metropolitan Pediatric Specialists	87.0%	94.9%	93.1%	8.0%	-1.8%	6.1%	Variable Improvement
Urgent Care Doctor's Office	84.9%	90.9%	89.2%	6.0%	-1.7%	4.3%	Variable Improvement
WestHealth Urgent Care	87.2%	94.7%	95.1%	7.5%	0.4%	7.9%	Variable Improvement
Quello Clinic	94.6%	87.7%	86.6%	-6.9%	-1.1%	-8.0%	Variable Decline
Stillwater Medical Group	89.1%	93.9%	87.9%	4.8%	-6.0%	-1.2%	Variable Decline
Olmsted Medical Center	93.4%	92.6%	82.2%	-0.9%	-10.4%	-11.2%	Variable Decline
Mankato Clinic	83.9%	86.1%	78.6%	2.2%	-7.5%	-5.3%	Variable Decline
Lakeview Clinic, Ltd.	94.2%	88.8%	88.7%	-5.5%	0.0%	-5.5%	Variable Decline
Multicare Associates of the Twin Cities	88.2%	82.1%	86.9%	-6.1%	4.8%	-1.3%	Variable Decline
Fergus Falls Medical Group	89.2%	86.4%	86.2%	-2.8%	-0.2%	-3.0%	Variable Decline
Riverwood Aitkin Clinic	85.4%	86.0%	77.6%	0.6%	-8.4%	-7.8%	Variable Decline
Northstar Physicians	83.5%	87.9%	78.6%	4.4%	-9.2%	-4.8%	Variable Decline
Mille Lacs Clinics	94.2%	94.1%	92.0%	-0.1%	-2.1%	-2.2%	Variable Decline
HealthPartners Central Minnesota Clinics	95.2%	90.4%	88.5%	-4.8%	-1.9%	-6.7%	Variable Decline
Sanford Clinic	87.4%	85.9%	76.6%	-1.5%	-9.3%	-10.8%	Variable Decline
Broadway Medical Center	61.2%	52.0%	52.9%	-9.2%	1.0%	-8.3%	Variable Decline
Innovis Health	85.1%	82.6%	76.0%	-2.5%	-6.7%	-9.2%	Consistently Decreased
Alexandria Clinic	77.5%	66.2%	61.5%	-11.3%	-4.7%	-16.0%	Consistently Decreased

**Table 30: Appropriate Testing for Children with Pharyngitis -
Rate Changes for Reporting Years 2008-2010**

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
Aspen Medical Group	85.9%	92.6%	95.2%	6.7%	2.6%	9.3%	Consistently Improved
MeritCare	68.6%	80.5%	87.2%	11.9%	6.7%	18.6%	Consistently Improved
St. Cloud Medical Group	80.3%	91.2%	96.4%	10.9%	5.2%	16.0%	Consistently Improved
Fairview Mesaba Clinics	28.3%	35.9%	63.6%	7.6%	27.7%	35.3%	Consistently Improved
HealthPartners Central Minnesota Clinics	88.0%	95.1%	97.4%	7.1%	2.4%	9.4%	Consistently Improved
Allina Medical Clinic*	82.9%	87.3%	92.8%	4.4%	5.5%	9.9%	Consistently Improved
HealthPartners Clinics	95.5%	95.7%	96.0%	0.2%	0.3%	0.5%	Relatively Stable
Fairview Health Services	91.9%	93.4%	91.9%	1.5%	-1.5%	0.0%	Relatively Stable
St. Mary's/Duluth Clinic Health System	68.2%	68.9%	67.8%	0.7%	-1.1%	-0.4%	Relatively Stable
Lakeview Clinic, Ltd.	88.0%	88.6%	89.4%	0.6%	0.7%	1.4%	Relatively Stable
Multicare Associates of the Twin Cities	98.0%	98.8%	97.0%	0.8%	-1.8%	-1.0%	Relatively Stable
Buffalo Clinic	94.1%	93.7%	93.6%	-0.5%	-0.1%	-0.6%	Relatively Stable
St. Luke's Clinics	79.2%	81.1%	82.4%	1.9%	1.2%	3.1%	Relatively Stable
Apple Valley Medical Clinic	90.5%	90.5%	88.7%	0.0%	-1.8%	-1.8%	Relatively Stable
Express HealthCare	96.7%	98.6%	100.0%	1.8%	1.5%	3.3%	Relatively Stable
Park Nicollet Health Services	90.1%	92.6%	91.6%	2.5%	-1.0%	1.5%	Variable Improvement
Family HealthServices Minnesota	79.6%	75.0%	84.3%	-4.6%	9.3%	4.7%	Variable Improvement
HealthEast	88.1%	93.6%	93.2%	5.4%	-0.3%	5.1%	Variable Improvement
University of Minnesota Physicians	93.3%	97.6%	97.9%	4.3%	0.3%	4.6%	Variable Improvement
Affiliated Community Medical Centers	71.7%	70.6%	74.4%	-1.1%	3.8%	2.6%	Variable Improvement
Mankato Clinic*	61.0%	76.8%	78.0%	15.9%	1.1%	17.0%	Variable Improvement
Northwest Family Physicians	95.2%	90.6%	97.1%	-4.6%	6.4%	1.8%	Variable Improvement
Alexandria Clinic	70.7%	67.7%	78.5%	-3.0%	10.7%	7.8%	Variable Improvement
Sanford Clinic	62.2%	71.1%	72.9%	8.9%	1.8%	10.8%	Variable Improvement
Wadena Medical Center	74.4%	61.2%	78.0%	-13.2%	16.8%	3.6%	Variable Improvement
Avera Medical Group	26.8%	45.2%	38.0%	18.5%	-7.3%	11.2%	Variable Improvement
Allina Health System	83.1%	83.8%	88.7%	0.7%	4.9%	5.6%	Variable Improvement
MinuteClinic	99.0%	96.8%	99.7%	-2.2%	2.9%	0.7%	Variable Improvement
North Memorial Clinic	83.3%	68.6%	68.8%	-14.8%	0.2%	-14.6%	Variable Decline
Quello Clinic	91.3%	85.7%	91.1%	-5.6%	5.4%	-0.2%	Variable Decline
CentraCare Health System	83.7%	85.5%	81.8%	1.8%	-3.6%	-1.8%	Variable Decline
Innovis Health	72.3%	63.4%	69.2%	-8.9%	5.9%	-3.1%	Variable Decline
Altru Health System	47.8%	40.7%	45.8%	-7.1%	5.1%	-1.9%	Variable Decline
Hutchinson Medical Center	84.2%	90.6%	82.9%	6.4%	-7.7%	-1.3%	Variable Decline
Mayo Clinic	85.5%	75.2%	82.5%	-10.3%	7.2%	-3.1%	Variable Decline
Northstar Physicians	91.3%	94.3%	76.5%	3.0%	-17.8%	-14.8%	Variable Decline
Lakewood Health Center	67.9%	37.0%	56.1%	-30.9%	19.1%	-11.8%	Variable Decline
Unity Family Healthcare - Avon	90.6%	66.7%	69.4%	-24.0%	2.8%	-21.2%	Variable Decline
Broadway Medical Center	58.8%	56.8%	55.6%	-2.1%	-1.2%	-3.3%	Variable Decline
Riverview Clinics	33.8%	38.9%	30.0%	5.1%	-8.9%	-3.8%	Variable Decline
WestHealth Urgent Care	100.0%	97.7%	97.2%	-2.3%	-0.5%	-2.8%	Variable Decline
Olmsted Medical Center	92.4%	84.5%	81.9%	-7.9%	-2.6%	-10.5%	Consistently Decreased
Fergus Falls Medical Group	80.0%	76.5%	64.9%	-3.5%	-11.6%	-15.1%	Consistently Decreased
BMC & St. Joseph's Medical Center Clinics	91.2%	67.5%	64.2%	-23.7%	-3.3%	-27.1%	Consistently Decreased

* = $p_{\text{trend}} < 0.05$

**Table 31: Breast Cancer Screening -
Rate Changes for Reporting Years 2008-2010**

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
Bloomington Lake Clinic, Ltd.	60.4%	66.7%	70.3%	6.3%	3.6%	9.9%	Consistently Improved
Buffalo Clinic	59.0%	69.2%	76.8%	10.3%	7.6%	17.8%	Consistently Improved
Fairview Mesaba Clinics	58.8%	64.3%	83.3%	5.5%	19.0%	24.5%	Consistently Improved
Allina Medical Clinic	63.3%	63.5%	64.8%	0.2%	1.3%	1.5%	Relatively Stable
St. Mary's/Duluth Clinic Health System	64.6%	66.1%	66.4%	1.5%	0.3%	1.8%	Relatively Stable
University of Minnesota Physicians	52.9%	50.8%	53.7%	-2.1%	2.9%	0.8%	Variable Improvement
Allina Health System	72.0%	59.0%	72.8%	-13.0%	13.8%	0.8%	Variable Improvement
Park Nicollet Health Services	74.9%	72.8%	75.8%	-2.2%	3.1%	0.9%	Variable Improvement
Central Lakes Medical Clinic- Northstar Physician	72.9%	68.3%	74.4%	-4.6%	6.1%	1.4%	Variable Improvement
Family HealthServices Minnesota	55.9%	60.0%	57.7%	4.1%	-2.3%	1.8%	Variable Improvement
Avera Medical Group	66.7%	71.2%	68.6%	4.5%	-2.6%	2.0%	Variable Improvement
Altru Health System	62.3%	66.2%	65.6%	3.9%	-0.6%	3.3%	Variable Improvement
HealthEast	58.4%	60.7%	61.9%	2.3%	1.2%	3.5%	Variable Improvement
Mayo Clinic	70.8%	79.1%	74.5%	8.3%	-4.6%	3.7%	Variable Improvement
Fairview Health Services	62.5%	67.5%	66.9%	5.1%	-0.6%	4.4%	Variable Improvement
HealthPartners Clinics	73.1%	73.4%	80.7%	0.3%	7.3%	7.7%	Variable Improvement
Northstar Physicians	56.4%	54.8%	64.1%	-1.6%	9.3%	7.7%	Variable Improvement
Multicare Associates of the Twin Cities	62.0%	75.6%	71.2%	13.6%	-4.4%	9.2%	Variable Improvement
North Clinic	71.4%	64.6%	81.1%	-6.9%	16.5%	9.6%	Variable Improvement
St. Luke's Clinics	58.9%	54.6%	70.4%	-4.3%	15.8%	11.5%	Variable Improvement
St. Cloud Medical Group	76.6%	72.9%	53.8%	-3.7%	-19.2%	-22.8%	Variable Decline
Wadena Medical Center	73.2%	59.0%	60.9%	-14.2%	2.0%	-12.3%	Variable Decline
Fergus Falls Medical Group	79.6%	69.2%	67.9%	-10.3%	-1.3%	-11.7%	Variable Decline
Stillwater Medical Group	59.0%	58.3%	48.8%	-0.6%	-9.6%	-10.2%	Variable Decline
BMC & St. Joseph's Medical Center Clinics	66.7%	52.8%	57.0%	-13.9%	4.2%	-9.7%	Variable Decline
Hutchinson Medical Center	66.7%	42.4%	58.8%	-24.3%	16.4%	-7.9%	Variable Decline
Mankato Clinic	75.4%	69.4%	68.9%	-5.9%	-0.5%	-6.5%	Variable Decline
Olmsted Medical Center	76.4%	72.0%	70.5%	-4.4%	-1.5%	-5.9%	Variable Decline
United Family Medicine	50.0%	63.8%	45.2%	13.8%	-18.7%	-4.8%	Variable Decline
Alexandria Clinic	80.9%	71.4%	76.8%	-9.4%	5.4%	-4.0%	Variable Decline
Affiliated Community Medical Centers	65.7%	62.3%	62.2%	-3.4%	-0.1%	-3.4%	Variable Decline
Innovis Health	64.0%	69.5%	61.9%	5.5%	-7.6%	-2.1%	Variable Decline
North Memorial Clinic	63.3%	67.7%	62.0%	4.5%	-5.8%	-1.3%	Variable Decline
MeritCare	72.7%	66.9%	71.6%	-5.7%	4.6%	-1.1%	Variable Decline
Ridgeview Clinics	64.1%	65.6%	63.3%	1.5%	-2.4%	-0.8%	Variable Decline
Aspen Medical Group	69.6%	75.9%	68.9%	6.3%	-7.0%	-0.7%	Variable Decline
Lakewood Health Center	76.3%	62.8%	59.8%	-13.6%	-3.0%	-16.5%	Consistently Decreased
Sanford Clinic	74.4%	68.4%	59.0%	-5.9%	-9.5%	-15.4%	Consistently Decreased
CentraCare Health System*	67.2%	64.8%	62.6%	-2.5%	-2.2%	-4.7%	Consistently Decreased

* = $p_{\text{trend}} < 0.05$

**Table 32: Cervical Cancer Screening -
Rate Changes for Reporting Years 2008-2010**

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
Park Nicollet Health Services	80.2%	78.3%	77.6%	-2.0%	-0.7%	-2.7%	Relatively Stable
Fairview Health Services	79.7%	79.4%	77.8%	-0.4%	-1.6%	-2.0%	Relatively Stable
Cedar Riverside People's Center	58.8%	58.3%	57.3%	-0.5%	-1.0%	-1.5%	Relatively Stable
HealthEast	72.3%	73.5%	71.0%	1.2%	-2.4%	-1.3%	Relatively Stable
Buffalo Clinic	79.2%	78.9%	78.1%	-0.3%	-0.8%	-1.2%	Relatively Stable
Allina Medical Clinic	76.8%	75.4%	75.6%	-1.4%	0.3%	-1.2%	Relatively Stable
Aspen Medical Group	80.5%	79.0%	80.3%	-1.5%	1.3%	-0.2%	Relatively Stable
Family Medicine of Winona	74.7%	73.3%	74.5%	-1.4%	1.2%	-0.2%	Relatively Stable
Healthpartners Clinics	78.0%	78.3%	80.2%	0.3%	1.9%	2.2%	Relatively Stable
Family HealthServices Minnesota	74.2%	71.5%	74.3%	-2.8%	2.9%	0.1%	Variable Improvement
Ridgeview Clinics	71.4%	65.1%	71.6%	-6.3%	6.5%	0.2%	Variable Improvement
Altru Health System	74.2%	72.0%	74.8%	-2.2%	2.8%	0.6%	Variable Improvement
St. Luke's Clinics	69.0%	72.0%	69.6%	3.0%	-2.4%	0.6%	Variable Improvement
Lakewood Health Center	78.3%	68.4%	79.3%	-10.0%	10.9%	1.0%	Variable Improvement
CentraCare Health System	80.2%	78.2%	81.6%	-2.1%	3.5%	1.4%	Variable Improvement
Avera Medical Group	77.5%	62.6%	79.0%	-14.9%	16.4%	1.5%	Variable Improvement
Northwest Family Physicians	73.0%	76.2%	74.6%	3.3%	-1.6%	1.6%	Variable Improvement
HealthPartners Central Minnesota Clinics	80.4%	82.9%	82.1%	2.4%	-0.8%	1.7%	Variable Improvement
Northstar Physicians	75.8%	72.6%	77.9%	-3.2%	5.3%	2.1%	Variable Improvement
Mid Minnesota Family Medicine Center	71.7%	66.9%	74.5%	-4.8%	7.6%	2.8%	Variable Improvement
Quello Clinic	77.7%	73.6%	83.1%	-4.1%	9.5%	5.4%	Variable Improvement
Silver Lake Clinic	69.2%	82.7%	78.6%	13.5%	-4.1%	9.3%	Variable Improvement
Johnson Street Clinic	69.7%	48.6%	50.9%	-21.1%	2.3%	-18.8%	Variable Decline
Scenic Rivers Health Services	81.4%	65.5%	66.7%	-15.8%	1.2%	-14.7%	Variable Decline
Foley Medical Center	70.5%	59.0%	57.8%	-11.5%	-1.2%	-12.7%	Variable Decline
Gundersen Clinic	80.0%	65.6%	67.9%	-14.4%	2.3%	-12.1%	Variable Decline
SuperiorHealth Center	79.4%	78.1%	67.7%	-1.4%	-10.4%	-11.8%	Variable Decline
Mille Lacs Clinics	77.0%	68.8%	67.8%	-8.3%	-1.0%	-9.2%	Variable Decline
Fergus Falls Medical Group	75.1%	66.0%	67.1%	-9.1%	1.1%	-8.0%	Variable Decline
Winona Health	80.6%	71.6%	72.6%	-9.0%	1.0%	-8.0%	Variable Decline
Wadena Medical Center	75.7%	66.0%	68.0%	-9.8%	2.0%	-7.8%	Variable Decline
North Memorial Clinic	77.3%	76.5%	70.3%	-0.8%	-6.2%	-7.0%	Variable Decline
Central Lakes Medical Clinic- Northstar Physician	84.5%	65.7%	78.1%	-18.8%	12.4%	-6.5%	Variable Decline
Paynesville Area Health Care System	77.6%	72.3%	71.6%	-5.3%	-0.7%	-6.0%	Variable Decline
North Clinic	82.0%	74.7%	76.1%	-7.2%	1.4%	-5.8%	Variable Decline
Innovis Health	78.6%	67.5%	72.8%	-11.1%	5.3%	-5.8%	Variable Decline
St. Cloud Medical Group	82.9%	72.7%	77.2%	-10.2%	4.5%	-5.7%	Variable Decline
Mayo Clinic	82.2%	69.1%	76.7%	-13.1%	7.6%	-5.5%	Variable Decline
University Of Minnesota Physicians	78.1%	73.4%	72.6%	-4.7%	-0.8%	-5.4%	Variable Decline
Riverwood Aitkin Clinic	77.9%	70.2%	72.8%	-7.7%	2.6%	-5.1%	Variable Decline
Allina Health System	77.7%	74.7%	72.7%	-3.1%	-2.0%	-5.0%	Variable Decline
Lakeview Clinic, Ltd.	83.5%	82.8%	78.5%	-0.8%	-4.2%	-5.0%	Variable Decline
MeritCare	78.7%	72.6%	73.9%	-6.2%	1.3%	-4.8%	Variable Decline
Affiliated Community Medical Centers	79.0%	70.4%	75.2%	-8.6%	4.8%	-3.8%	Variable Decline
Olmsted Medical Center	75.7%	69.6%	72.0%	-6.1%	2.4%	-3.7%	Variable Decline
Family Practice Medical Center Of Willmar	86.9%	82.7%	83.2%	-4.2%	0.5%	-3.7%	Variable Decline
Mankato Clinic	82.0%	79.0%	78.4%	-3.0%	-0.6%	-3.5%	Variable Decline
Fairview Mesaba Clinics	76.0%	68.7%	72.5%	-7.3%	3.8%	-3.5%	Variable Decline
United Family Medicine	78.2%	73.4%	75.0%	-4.8%	1.6%	-3.2%	Variable Decline
BMC & St. Joseph's Medical Center Clinics	65.0%	48.2%	62.0%	-16.8%	13.8%	-3.0%	Variable Decline
Sanford Clinic	79.1%	73.7%	76.2%	-5.4%	2.5%	-2.9%	Variable Decline
Edina Family Physicians	83.3%	83.8%	80.4%	0.4%	-3.4%	-2.9%	Variable Decline
Stillwater Medical Group	75.9%	69.1%	73.4%	-6.8%	4.2%	-2.5%	Variable Decline
Multicare Associates Of The Twin Cities	76.2%	78.6%	73.6%	2.5%	-5.0%	-2.5%	Variable Decline
Bloomington Lake Clinic, Ltd.	75.6%	77.0%	73.4%	1.4%	-3.6%	-2.2%	Variable Decline
St. Mary's/Duluth Clinic Health System	77.0%	74.9%	74.9%	-2.1%	0.0%	-2.1%	Variable Decline
St. Paul Family Medical Center	59.7%	69.6%	58.0%	10.0%	-11.6%	-1.7%	Variable Decline
Alexandria Clinic	79.5%	72.2%	79.2%	-7.3%	7.0%	-0.3%	Variable Decline
Unity Family Healthcare - Avon	81.6%	79.0%	60.0%	-2.7%	-19.0%	-21.6%	Consistently Decreased
Hutchinson Medical Center	77.5%	70.0%	66.9%	-7.5%	-3.1%	-10.7%	Consistently Decreased
Apple Valley Medical Clinic	73.9%	71.0%	63.8%	-2.9%	-7.2%	-10.1%	Consistently Decreased
Broadway Medical Center	76.7%	73.5%	67.9%	-3.2%	-5.6%	-8.8%	Consistently Decreased

**Table 33: Childhood Immunization Status (Combo 3) -
Rate Changes for Reporting Years 2008-2010**

Medical Group Name	2008 MHCP Rate	2009 MHCP Rate	2010 MHCP Rate	Rate Gap (2009-2008)	Rate Gap (2010-2009)	Rate Gap (2010-2008)	Rate Gap Pattern (2008-2010)
Aspen Medical Group	80.6%	82.8%	85.9%	2.2%	3.2%	5.4%	Consistently Improved
Mayo Clinic*	81.4%	84.4%	87.6%	3.0%	3.3%	6.2%	Consistently Improved
Family HealthServices Minnesota	62.4%	65.0%	76.3%	2.7%	11.2%	13.9%	Consistently Improved
Avera Medical Group	69.3%	72.1%	84.7%	2.8%	12.6%	15.4%	Consistently Improved
Olmsted Medical Center	69.1%	79.7%	84.5%	10.6%	4.7%	15.4%	Consistently Improved
HealthEast	70.5%	84.7%	87.7%	14.2%	3.0%	17.2%	Consistently Improved
Metropolitan Pediatric Specialists	47.6%	78.4%	84.5%	30.8%	6.1%	36.8%	Consistently Improved
HealthPartners Clinics	82.5%	84.0%	82.4%	1.6%	-1.6%	-0.1%	Relatively Stable
Allina Medical Clinic	79.0%	80.0%	80.0%	0.9%	0.0%	0.9%	Relatively Stable
Fairview Health Services	73.1%	81.0%	75.2%	7.9%	-5.8%	2.1%	Variable Improvement
CentraCare Health System	75.8%	74.9%	81.6%	-0.9%	6.7%	5.8%	Variable Improvement
Innovis Health	57.9%	78.9%	70.8%	21.0%	-8.1%	12.9%	Variable Improvement
Mankato Clinic	84.1%	82.5%	79.3%	-1.6%	-3.2%	-4.7%	Variable Decline
St. Mary's/Duluth Clinic Health System	81.8%	78.4%	77.1%	-3.5%	-1.3%	-4.7%	Variable Decline
Park Nicollet Health Services	90.0%	88.4%	86.0%	-1.6%	-2.4%	-4.0%	Variable Decline
MeritCare	78.1%	91.6%	74.6%	13.5%	-17.0%	-3.5%	Variable Decline
University of Minnesota Physicians	77.5%	57.2%	75.9%	-20.3%	18.7%	-1.6%	Variable Decline
Affiliated Community Medical Centers*	86.0%	80.5%	74.6%	-5.6%	-5.8%	-11.4%	Consistently Decreased

* = $p_{\text{trend}} < 0.05$

Appendix 5: Purchaser Performance Rate Differences

Statistical Methods for Analysis of Purchaser Performance Rate Differences

An analysis was conducted to assess whether a gap between purchasers within a medical group was present and whether the gap was statistically significant. Medical groups were included in the analysis if both purchaser categories met the minimum reporting requirements for a measure. Therefore, for administrative measures, a medical group was included in the analysis if each purchaser category had at least 30 patients. For the hybrid measures, a medical group was included if each purchaser category had at least 60 patients. Assessment was made at the clinic level for two of the Direct Data Submission measures- Optimal Diabetes Care and Optimal Vascular Care. For these two measures, a clinic was included in the analysis if each purchaser category had at least 30 patients. The t-test was used to determine if gaps found between purchasers at the medical group level were statistically significant. The p-value of less than 0.05 included in this report is unadjusted for multiple test differences.

A second analysis was conducted using a two-tailed t-test comparing purchaser rate gaps in medical groups/or clinics to purchaser rate gaps at the statewide level. A two-tailed test was used to show whether the purchaser rate gap at the medical group/or clinic level was statistically bigger or smaller than the statewide purchaser rate gap. Significance was designated at a p-value less than 0.05. Statistically, this means that the difference between gaps was tested.

Optimal Diabetes Care

One hundred twenty-five clinics met the minimum reporting requirement of at least 30 patients per purchaser group for this analysis. The purchaser performance rate gap at the statewide level was 8 percentage points and is statistically significant. This means that the Optimal Diabetes Care statewide rate for MHCP patients (11 percent) was significantly lower than that of Other Purchasers (19 percent).

One hundred seven of the clinics had rates for MHCP patients that were lower than Other Purchasers; of these clinics, twenty-nine had significant gaps between purchasers (see Column 5). This means that twenty-nine clinics had significantly lower performance rates compared to Other Purchasers. Eighteen of the clinics had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4).

We also assessed whether the absolute value of the gap between purchasers at a clinic level was bigger or smaller than the gap at the statewide level. For Optimal Diabetes Care, fifty clinics had bigger purchaser gaps than the gap at the statewide level; seventy-five clinics had smaller purchaser gaps. Next, we tested the significance of each clinic purchaser gap compared to the statewide purchaser gap. Forty-nine clinics had significantly bigger purchaser gaps than the statewide gap; sixty-five clinics had a significantly smaller purchaser gap than the statewide gap and seventeen of them had a MHCP rate that was higher than its Other Purchasers rate (see Column 6).

There were three clinics-**Allina Medical Clinic - Woodlake, Hennepin Faculty Associates - Hennepin Care North,** and **North Memorial Clinic - Brooklyn Park Physicians**- that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the clinic, AND their purchaser rate gap (<1 percent) was significantly smaller than the statewide purchaser rate gap (8 percent). Table 1 summarizes these findings.

Table 34: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Optimal Diabetes Care (Clinic Level)

Clinic Level	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the clinic between purchasers.	There are significant differences between the statewide gap and the clinic gap
Statewide	10.6%	18.7%	8.2%	Y	
Affiliated Community Medical Centers - Benson Clinic	16.7%	23.9%	7.3%	.	.
Affiliated Community Medical Centers - Granite Falls Clinic	18.2%	33.1%	14.9%	.	Y
Affiliated Community Medical Centers - Litchfield Clinic (East)	35.0%	49.4%	14.4%	.	Y
Affiliated Community Medical Centers - Litchfield Clinic (West)	18.4%	15.4%	-3.0%	.	Y*
Affiliated Community Medical Centers - Marshall Clinic (MarketSt.)	18.7%	31.0%	12.3%	Y	Y
Affiliated Community Medical Centers - Redwood Falls Clinic	22.8%	28.3%	5.5%	.	Y*
Affiliated Community Medical Centers - Willmar Clinic	17.0%	26.1%	9.1%	Y	Y
Allina Health System - New Ulm Medical Center	18.5%	20.7%	2.1%	.	Y*
Allina Medical Clinic - Buffalo	22.2%	39.3%	17.1%	Y	Y
Allina Medical Clinic - Cambridge Medical Center	12.7%	26.7%	14.1%	Y	Y
Allina Medical Clinic - Champlin	34.2%	25.4%	-8.8%	.	Y
Allina Medical Clinic - Coon Rapids	24.3%	35.5%	11.2%	Y	Y
Allina Medical Clinic - Cottage Grove	20.5%	31.0%	10.6%	Y	Y
Allina Medical Clinic - Eagan	24.5%	37.3%	12.8%	.	Y
Allina Medical Clinic - Edina	21.6%	30.8%	9.2%	.	Y
Allina Medical Clinic - Elk River	31.3%	35.2%	4.0%	.	Y*
Allina Medical Clinic - Faribault	24.4%	28.2%	3.7%	.	Y*
Allina Medical Clinic - Farmington	10.0%	35.3%	25.3%	Y	Y
Allina Medical Clinic - Forest Lake	25.0%	31.4%	6.4%	.	Y*
Allina Medical Clinic - Hastings (Nininger)	17.1%	25.9%	8.7%	.	Y
Allina Medical Clinic - Hastings (W First St)	14.3%	26.5%	12.3%	.	Y
Allina Medical Clinic - Mora	20.5%	23.5%	3.0%	.	Y*
Allina Medical Clinic - Nicollet Mall	29.1%	27.3%	-1.8%	.	Y*
Allina Medical Clinic - Northfield	18.8%	30.3%	11.5%	.	Y
Allina Medical Clinic - Ramsey	29.0%	30.2%	1.2%	.	Y*
Allina Medical Clinic - Shakopee	26.9%	27.8%	0.9%	.	Y*
Allina Medical Clinic - United Medical Specialties	14.5%	23.4%	8.9%	.	Y
Allina Medical Clinic - West Health Campus	17.1%	32.9%	15.8%	Y	Y
Allina Medical Clinic - West St. Paul	15.7%	38.2%	22.6%	Y	Y
Allina Medical Clinic - Woodbury	15.0%	33.8%	18.8%	Y	Y
Allina Medical Clinic - Woodlake	27.3%	27.1%	-0.1%	.	Y*
Apple Valley Medical Clinic	18.0%	40.1%	22.1%	Y	Y
Bloomington Lake Clinic - Minneapolis	12.1%	15.5%	3.3%	.	Y*
Burnett Medical Center	3.0%	7.1%	4.0%	.	Y*
Fairview CedarRidge Clinic	10.9%	14.2%	3.3%	.	Y*
Fairview EdenCenter Clinic	23.5%	20.9%	-2.6%	.	Y*
Fairview Elk River Clinic	15.6%	20.8%	5.2%	.	Y*
Fairview Hiawatha Clinic	24.4%	19.3%	-5.1%	.	Y*
Fairview Lakes Medical Center	4.1%	13.6%	9.6%	.	Y
Fairview Northeast Clinic	12.5%	18.1%	5.6%	.	Y*
Fairview Oxboro Clinic	30.2%	32.1%	2.0%	.	Y*
Fairview Princeton Clinic	13.8%	16.8%	3.0%	.	Y*

Y = Yes, statistical significance

* = Smaller purchaser gap within Medical Group than the statewide gap

Table 34: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Optimal Diabetes Care (Clinic Level)- *continued*

Clinic Level	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the clinic between purchasers.	There are significant differences between the statewide gap and the clinic gap
Statewide	10.6%	18.7%	8.2%	Y	
Fairview Ridges Clinic	14.0%	16.2%	2.2%	.	Y*
Family HealthServices Minnesota - Afton Road	9.1%	22.3%	13.2%	.	Y
Family HealthServices Minnesota - Maryland Clinic	10.8%	17.6%	6.8%	.	.
Family HealthServices Minnesota - North St. Paul Clinic	9.5%	23.8%	14.3%	.	Y
Family HealthServices Minnesota - Vadnais Heights Office	6.3%	17.7%	11.4%	.	Y
Family Practice Medical Center of Willmar	17.6%	25.6%	8.1%	.	.
Glenwood Medical Center	1.9%	2.2%	0.2%	.	Y*
HealthEast - Midway	12.9%	42.5%	29.6%	Y	Y
HealthEast - Rice Street	10.8%	13.4%	2.6%	.	Y*
HealthEast - Roselawn	15.1%	12.9%	-2.2%	.	Y*
HealthEast - Woodbury	27.5%	26.0%	-1.5%	.	Y*
HealthPartners - Apple Valley	15.4%	30.6%	15.2%	Y	Y
HealthPartners - Bloomington	11.6%	23.2%	11.6%	Y	Y
HealthPartners - Brooklyn Center	15.5%	31.5%	16.0%	Y	Y
HealthPartners - Center for International Health	20.0%	17.1%	-2.9%	.	Y*
HealthPartners - Como	20.3%	27.2%	6.9%	.	.
HealthPartners - Coon Rapids	25.0%	30.7%	5.7%	.	Y*
HealthPartners - Health Specialty Center	19.7%	22.3%	2.6%	.	Y*
HealthPartners - Inver Grove Heights	16.2%	39.3%	23.1%	.	Y
HealthPartners - Maplewood	18.9%	27.2%	8.3%	.	.
HealthPartners - Midway	19.6%	23.5%	3.9%	.	Y*
HealthPartners - Riverside	18.6%	28.3%	9.7%	Y	Y
HealthPartners - RiverWay Andover	30.3%	33.6%	3.3%	.	Y*
HealthPartners - RiverWay Anoka	12.9%	29.8%	16.9%	Y	Y
HealthPartners - St. Paul	14.2%	20.6%	6.4%	.	Y*
HealthPartners - West	25.7%	23.3%	-2.4%	.	Y*
HealthPartners - Woodbury	11.8%	27.6%	15.8%	Y	Y
HealthPartners Central Minnesota Clinics - St. Cloud	9.8%	19.4%	9.6%	.	Y
Hennepin Faculty Associates - HCMC Family Medical Center	8.3%	11.0%	2.7%	.	Y*
Hennepin Faculty Associates - HCMC Medicine Clinic	5.6%	5.7%	0.1%	.	Y*
Hennepin Faculty Associates - Hennepin Care North	6.5%	6.2%	-0.3%	.	Y*
Hennepin Faculty Associates - Hennepin Care South	12.9%	16.2%	3.3%	.	Y*
HFA - Hennepin Center for Diabetes & Endocrinology	5.8%	12.7%	6.9%	.	.
Hennepin Faculty Associates - Hennepin Family Care E. Lake Clinic	8.6%	6.5%	-2.2%	.	Y*
Hennepin Faculty Associates - HFA Internal Medicine Clinic	9.3%	12.1%	2.8%	.	Y*
Hutchinson Medical Center	21.4%	21.1%	-0.4%	.	Y*
Lakeview Medical Clinic	5.9%	7.6%	1.8%	.	Y*
MeritCare - Bemidji Family Medicine	5.6%	9.1%	3.6%	.	Y*
MeritCare - Broadway Internal Medicine	3.0%	13.4%	10.3%	.	Y
MeritCare - Detroit Lakes	3.0%	11.1%	8.0%	.	.
MeritCare - Thief River Falls Northwest Clinic	7.8%	9.9%	2.2%	.	Y*
MeritCare - West Fargo	7.8%	11.7%	3.9%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Table 34: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Optimal Diabetes Care (Clinic Level)- *continued*

Clinic Level	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the clinic between purchasers.	There are significant differences between the statewide gap and the clinic gap
Statewide	10.6%	18.7%	8.2%	Y	
Mid Minnesota Family Medicine Center	2.6%	9.6%	7.0%	.	.
Multicare Associates - Blaine Medical Center	14.6%	18.9%	4.3%	.	Y*
Multicare Associates - Fridley Medical Center	9.4%	20.9%	11.5%	Y	Y
North Memorial Clinic - Brooklyn Park Physicians	14.0%	14.0%	0.1%	.	Y*
NorthPoint Health & Wellness Center	9.0%	7.4%	-1.6%	.	Y*
Northwest Family Physicians - Crystal	11.0%	19.5%	8.5%	.	Y
Olmsted Medical Center - Rochester Southeast	5.3%	14.0%	8.7%	Y	Y
Park Nicollet Clinic - Bloomington	21.6%	23.2%	1.6%	.	Y*
Park Nicollet Clinic - Brookdale	12.0%	24.1%	12.1%	Y	Y
Park Nicollet Clinic - Burnsville	14.7%	28.7%	14.0%	Y	Y
Park Nicollet Clinic - Chanhassen	15.8%	28.0%	12.2%	.	Y
Park Nicollet Clinic - Creekside	13.6%	23.5%	9.9%	.	Y
Park Nicollet Clinic - Eagan	26.5%	25.1%	-1.5%	.	Y*
Park Nicollet Clinic - Minneapolis	9.3%	15.2%	5.9%	.	Y*
Park Nicollet Clinic - Shakopee	15.7%	21.3%	5.6%	.	Y*
Park Nicollet Clinic - St. Louis Park Endocrinology	9.0%	14.3%	5.3%	Y	Y*
Park Nicollet Clinic - St. Louis Park Family Medicine	20.2%	23.4%	3.2%	.	Y*
Park Nicollet Clinic - St. Louis Park Internal Medicine	15.0%	32.0%	17.0%	Y	Y
Quello Clinic - Burnsville	15.6%	24.3%	8.7%	.	Y
Rainy Lake Medical Center	14.8%	16.5%	1.7%	.	Y*
SMDC Medical Center- DC First Street Building	13.4%	20.5%	7.1%	Y	.
SMDC Medical Center- DC Hermantown	10.0%	19.0%	9.0%	.	Y
SMDC Medical Center- DC Lakeside	13.3%	16.8%	3.4%	.	Y*
SMDC Medical Center- DC West	13.7%	19.9%	6.3%	.	Y*
SMHS/DC-Superior	12.0%	17.4%	5.3%	.	Y*
St. Mary's/Duluth Clinic - Ashland	6.6%	16.2%	9.6%	Y	Y
St. Mary's/Duluth Clinic - Aurora	7.7%	21.1%	13.4%	.	Y
St. Mary's/Duluth Clinic - Deer River	20.0%	18.2%	-1.8%	.	Y*
St. Mary's/Duluth Clinic - Ely	10.4%	25.9%	15.5%	Y	Y
St. Mary's/Duluth Clinic - Hayward	7.0%	21.3%	14.3%	Y	Y
St. Mary's/Duluth Clinic - Hibbing	16.7%	21.8%	5.1%	.	Y*
St. Mary's/Duluth Clinic - Spooner	28.0%	28.9%	0.9%	.	Y*
St. Mary's/Duluth Clinic - Virginia	7.1%	15.3%	8.1%	.	.
Stevens Community Medical Center	6.5%	7.7%	1.3%	.	Y*
Stillwater Medical Group - Curve Crest Clinic	16.9%	18.3%	1.4%	.	Y*
University of Minnesota Physicians - Bethesda Clinic	11.3%	17.1%	5.8%	.	Y*
University of Minnesota Physicians - Broadway Family Medicine	8.5%	4.4%	-4.2%	.	Y*
University of Minnesota Physicians - Medicine 6 Clinic, Endocrine	3.2%	9.9%	6.7%	.	Y*
University of Minnesota Physicians - Phalen Clinic	18.6%	13.3%	-5.3%	.	Y*
University of Minnesota Physicians - Primary Care Center	5.9%	21.5%	15.6%	Y	Y
University of Minnesota Physicians - Smiley's Clinic	16.9%	24.4%	7.4%	.	.

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Optimal Vascular Care

Sixteen clinics met the minimum reporting requirement of at least 30 patients per purchaser group for this analysis. The purchaser performance rate gap at the statewide level was 14 percentage points and is statistically significant. This means that the Optimal Vascular Care statewide rate for MHCP patients (21 percent) was significantly lower than that of Other Purchasers (35 percent).

Twelve of the clinics had rates for MHCP patients that were lower than Other Purchasers; six of these clinics had significant gaps between purchasers (see Column 5). This means that these six clinics had significantly lower performance rates compared to Other Purchasers. Four clinics had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4).

We also assessed whether the absolute value of the gap between purchasers at a clinic level was bigger or smaller than the gap at the statewide level. For Optimal Vascular Care, four clinics had bigger purchaser gaps than the gap at the statewide level; twelve clinics had smaller purchaser gaps. Next, we tested the significance of each clinic purchaser gap compared to the statewide purchaser gap. Of the four clinics that had bigger purchaser gaps than the gap at the statewide level, all four clinics had significantly bigger gaps than the statewide gap; eight clinics had a significantly smaller purchaser gap than the statewide gap (see Column 6).

There were four clinics that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the clinic, AND their purchaser rate gap was significantly smaller than the statewide purchaser rate gap (14 percent)- **Hennepin Faculty Associates - HCMC Medicine Clinic, Hennepin Faculty Associates - HCMC Hennepin Heart Center, Queen of Peace Hospital, and University of Minnesota Physicians - Broadway Family Medicine - Outpatient Clinic.** Table 2 summarizes these findings.

Table 35: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Optimal Vascular Care (Clinic Level)

Clinic Level	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the clinic between purchasers.	There are significant differences between the statewide gap and the clinic gap
Statewide	20.6%	34.9%	14.4%	Y	
Allina Health System - Metropolitan Heart & Vascular Institute	22.1%	34.1%	12.0%	Y	.
Allina Health System - Minneapolis Heart Institute	17.9%	30.1%	12.2%	Y	.
Allina Medical Clinic - Cambridge Medical Center	30.0%	43.1%	13.1%	.	.
Allina Medical Clinic - Coon Rapids	33.9%	49.9%	16.0%	Y	Y
HealthPartners - Health Specialty Center	37.0%	49.4%	12.4%	.	.
HealthPartners - Regions Heart Center	26.3%	48.3%	22.1%	Y	Y
Hennepin Faculty Associates - HCMC Hennepin Heart Center	13.3%	6.5%	-6.8%	.	Y*
Hennepin Faculty Associates - HCMC Medicine Clinic	18.6%	10.7%	-7.9%	.	Y*
MeritCare - Thief River Falls Northwest Clinic	19.8%	22.7%	2.9%	.	Y*
Park Nicollet Clinic - Brookdale	19.4%	39.0%	19.6%	Y	Y
Queen of Peace Hospital - Outpatient Clinic	5.3%	0.0%	-5.3%	.	Y*
SMDC Medical Center - DC First Street Building	38.1%	44.9%	6.8%	.	Y*
SMHS/DC-Superior	34.4%	38.1%	3.8%	.	Y*
St. Mary's/Duluth Clinic - Ashland	15.2%	53.7%	38.6%	Y	Y
St. Mary's/Duluth Clinic - DC Main	24.4%	31.2%	6.8%	.	Y*
University of Minnesota Physicians - Broadway Family Medicine	24.2%	11.8%	-12.5%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Depression Remission at Six Months

Table 3 summarizes the results comparing purchaser rate gaps at the statewide level. The purchaser rate gap at the statewide level was 3 percentage points and is statistically significant. This means that Depression Remission at Six Months statewide rate for MHCP patients (3 percent) was significantly lower than that of Other Purchasers (6.5 percent).

Table 36: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Depression Remission at Six Months (Statewide)

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	3.1%	6.5%	3.4%	Y	

Y = Yes, statistical significance

Controlling High Blood Pressure

Fourteen medical groups met the minimum reporting requirement of at least 60 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 6 percentage points and is statistically significant. This means that the Controlling High Blood Pressure statewide rate for MHCP patients (67 percent) was significantly lower than that of Other Purchasers (73 percent).

Eleven of the medical groups had rates for MHCP patients that were lower than Other Purchasers; two medical groups had statistically significant gaps between purchasers within the medical group (see Column 5). This means that within those two medical groups, MHCP patients had significantly lower performance rates than patients enrolled with Other Purchasers. Three medical groups had a rate for MHCP patients that were higher than Other Purchasers (designated with a negative sign in Column 4).

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap at the statewide level. For Controlling High Blood Pressure, five medical groups had bigger purchaser gaps than the gap at the statewide level; nine medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Five medical groups had significantly bigger purchaser gaps than the statewide gap; for one of these medical groups the MHCP rate is higher than the Other Purchaser rate gap (see Column 6). Seven medical groups had gaps significantly smaller than the statewide gap; two of these medical groups had a MHCP performance rate higher than the Other Purchaser rate.

There were two medical groups that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gap was significantly smaller than the statewide purchaser rate gap (6 percent) – **Family HealthServices Minnesota** and **Sanford Clinic**. Table 3 summarizes these findings.

Table 37: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Controlling High Blood Pressure

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	66.9%	72.6%	5.7%	Y	
Allina Health System	65.6%	81.6%	16.0%	Y	Y
Allina Medical Clinic	76.6%	78.4%	1.8%	.	Y*
Aspen Medical Group	64.3%	72.8%	8.5%	.	Y
CentraCare Health System	77.0%	78.7%	1.7%	.	Y*
Fairview Health Services	72.2%	73.7%	1.5%	.	Y*
Family HealthServices Minnesota	87.6%	83.3%	-4.4%	.	Y*
HealthEast	76.0%	83.5%	7.5%	.	Y
HealthPartners Clinics	74.7%	80.8%	6.1%	Y	Y
MeritCare	63.7%	65.3%	1.6%	.	Y*
North Clinic	56.5%	59.7%	3.2%	.	.
North Memorial Clinic	73.6%	66.5%	-7.1%	.	Y
Park Nicollet Health Services	80.1%	84.8%	4.7%	.	.
Sanford Clinic	59.8%	59.8%	-0.1%	.	Y*
St. Mary's/Duluth Clinic Health System	71.7%	73.5%	1.8%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Use of Appropriate Medications for People with Asthma (Ages 5-50)

Thirty-one medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 5 percentage points and is statistically significant. This means that the Use of Appropriate Medications for People with Asthma statewide rate for MHCP patients (89 percent) was significantly lower than that of Other Purchasers (93 percent).

One medical group had rate gaps of less than one percent suggesting little or no difference between MHCP and Other Purchaser patients. Twenty-four of the medical groups had rates for MHCP patients that were lower than Other Purchasers. Nine medical groups had statistically significant gaps between purchasers within the medical group (see Column 5). All nine of these groups MHCP patients had significantly lower performance rates. Seven medical groups had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4); zero medical groups MHCP patients had significantly higher performance rates compared to Other Purchasers.

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Use of Appropriate Medications for People with Asthma measure, 16 medical groups had bigger purchaser gaps than the gap at the statewide level; 15 medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Twenty-four medical groups had purchaser gaps that were significantly different than the statewide gap. Thirteen of these medical groups had gaps significantly bigger than the statewide gap; eleven medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There were four medical groups that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gap was significantly smaller than the statewide purchaser rate gap (5 percent)-**Affiliated Community Medical Centers, Alexandria Clinic, HealthEast, and Northstar Physicians**. Table 4 summarizes these findings.

**Table 38: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Use of Appropriate Medications for People with Asthma (Ages 5-50)**

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	88.6%	93.1%	4.5%	Y	
Affiliated Community Medical Centers	95.0%	94.5%	-0.5%	.	Y*
Albert Lea Clinic - Mayo Health System	77.4%	97.0%	19.6%	Y	Y
Alexandria Clinic	98.1%	94.3%	-3.8%	.	Y*
Allina Health System	88.4%	92.5%	4.0%	.	.
Allina Medical Clinic	87.5%	93.4%	5.9%	Y	.
Aspen Medical Group	87.5%	94.0%	6.5%	.	Y
Avera Medical Group	94.1%	88.1%	-6.0%	.	Y
Buffalo Clinic	76.7%	92.4%	15.7%	Y	Y
CentraCare Health System	93.9%	96.8%	2.9%	.	Y*
Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	96.5%	97.8%	1.3%	.	Y*
Fairview Health Services	88.6%	92.0%	3.4%	.	.
Family HealthServices Minnesota	80.4%	92.1%	11.6%	Y	Y
HealthEast	92.2%	89.6%	-2.6%	.	Y*
HealthPartners Clinics	88.5%	92.4%	3.9%	Y	.
Hennepin Faculty Associates & HCMC Clinics	88.4%	90.2%	1.8%	.	Y*
Hutchinson Medical Center	94.4%	97.2%	2.8%	.	Y*
Immanuel St. Joseph - Mayo Health System	94.3%	81.9%	-12.4%	.	Y
Innovis Health	90.9%	95.6%	4.7%	.	.
Mankato Clinic	86.7%	92.1%	5.4%	.	.
Mayo Clinic	93.3%	94.4%	1.1%	.	Y*
MeritCare	82.4%	92.4%	10.1%	Y	Y
North Memorial Clinic	87.8%	94.1%	6.3%	.	Y
Northstar Physicians	92.7%	90.2%	-2.5%	.	Y*
Olmsted Medical Center	83.3%	90.5%	7.2%	.	Y
Park Nicollet Health Services	92.3%	93.7%	1.4%	.	Y*
Partners in Pediatrics - Children's Physician Network	97.6%	100.0%	2.4%	Y	Y*
Sanford Clinic	89.7%	94.0%	4.3%	.	.
St. Cloud Medical Group	97.9%	91.4%	-6.5%	.	Y
St. Luke's Clinics	75.0%	93.3%	18.3%	Y	Y
St.Mary's/Duluth Clinic Health System	84.7%	92.3%	7.6%	.	Y
University of Minnesota Physicians	86.9%	98.2%	11.3%	Y	Y

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Appropriate Treatment for Children with Upper Respiratory Infection

Seventy medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was less than 1 percentage point and was not statistically significant. This means that there is no difference at the statewide level between purchasers for the Appropriate Treatment for Children with Upper Respiratory Infection.

Thirty-four medical groups had purchaser performance gaps of less than 1 percent suggesting little or no difference between MHCP and Other Purchaser patients. Twenty-eight of the medical groups had rates for MHCP patients that were lower than Other Purchasers; for two groups MHCP patients had significantly lower performance rates compared to Other Purchasers. Forty-two of the medical groups had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4); for ten of these groups MHCP patients had significantly higher performance rates.

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Appropriate Treatment for Children with upper Respiratory Infection measure, sixty-four medical groups had bigger purchaser gaps than the gap at the statewide level. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Fifty-five medical groups had purchaser gaps that were significantly different than the statewide gap. Fifty-one of these medical groups had gaps significantly bigger than the statewide gap; four medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There was one medical group that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gap (<0.5 percent) was significantly smaller than the statewide purchaser rate gap - **HealthEast**. Table 5 summarizes these findings.

**Table 39: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Appropriate Treatment for Children with Upper Respiratory Infection**

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	87.9%	87.4%	-0.5%		
Affiliated Community Medical Centers	88.9%	87.5%	-1.4%	.	.
Albert Lea Clinic- Mayo Health System	88.2%	89.6%	1.4%	.	Y
Alexandria Clinic	61.5%	60.7%	-0.8%	.	.
Allina Health System	91.3%	90.3%	-1.0%	.	.
Allina Medical Clinic	96.0%	94.3%	-1.7%	.	.
Altru Health System	86.6%	83.3%	-3.2%	.	Y
Apple Valley Medical Clinic	78.3%	86.0%	7.7%	.	Y
Aspen Medical Group	96.0%	91.9%	-4.1%	.	Y
Austin Medical Center- Mayo Health System	88.3%	87.8%	-0.5%	.	.
Avera Medical Group	31.3%	55.2%	23.8%	Y	Y
Brainerd Medical Center OB/GYN	87.0%	82.8%	-4.1%	.	Y
Broadway Medical Center	52.9%	44.7%	-8.3%	.	Y
Buffalo Clinic	97.3%	92.6%	-4.7%	Y	Y
CentraCare Health System	97.2%	94.9%	-2.3%	.	.
Central Pediatrics	93.8%	92.5%	-1.3%	.	.
Chaska Urgent Care	90.0%	81.6%	-8.4%	.	Y
Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	94.4%	86.5%	-7.9%	Y	Y
Emergency Physicians	94.4%	80.9%	-13.5%	Y	Y
Express HealthCare	96.0%	93.9%	-2.1%	.	.
Fairview Health Services	90.7%	91.2%	0.5%	.	Y
Fairmont Medical Center- Mayo Health System	71.8%	58.1%	-13.8%	.	Y
Family Health Medical Clinics	85.4%	84.9%	-0.5%	.	.
Family HealthServices Minnesota	86.4%	84.2%	-2.2%	.	.
Fergus Falls Medical Group	86.2%	81.8%	-4.4%	.	Y
Fridley Children's & Teenagers' Med. Center- Children's Physician	96.0%	92.5%	-3.5%	.	Y
Glencoe Regional Health Services	87.9%	68.4%	-19.5%	Y	Y
Glenwood Medical Center	62.7%	66.7%	4.0%	.	Y
Grand Itasca Clinic	88.3%	89.5%	1.1%	.	Y
HealthEast	92.6%	92.4%	-0.2%	.	Y*
HealthPartners Central Minnesota Clinics	88.5%	91.4%	2.9%	.	Y
HealthPartners Clinics	96.8%	94.7%	-2.2%	Y	.
Hennepin Faculty Associates & HCMC Clinics	97.9%	93.9%	-4.0%	.	Y
Hutchinson Medical Center	93.8%	93.8%	0.1%	.	Y*
Immanuel St. Joseph- Mayo Health System	78.5%	80.2%	1.7%	.	Y
Innovis Health	76.0%	67.7%	-8.3%	.	Y

Y = Yes, statistical significance

* = Smaller purchaser gap within Medical Group than the statewide gap

**Table 39: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Appropriate Treatment for Children with Upper Respiratory Infection - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	87.9%	87.4%	-0.5%		
Lakeview Clinic, Ltd.	88.7%	90.0%	1.2%	.	Y
Lakewood Health Center	87.0%	81.3%	-5.7%	.	Y
Mankato Clinic	78.6%	83.0%	4.4%	.	Y
Mayo Clinic	95.4%	88.2%	-7.1%	Y	Y
MeritCare	88.4%	81.5%	-6.9%	Y	Y
Metropolitan Pediatric Specialists	93.1%	94.7%	1.6%	.	Y
MinuteClinic	94.7%	96.5%	1.8%	.	Y
Multicare Associates of the Twin Cities	86.9%	87.1%	0.2%	.	Y*
North Clinic	77.1%	87.8%	10.6%	.	Y
North Memorial Clinic	94.9%	89.1%	-5.8%	Y	Y
Northstar Physicians	78.6%	80.2%	1.6%	.	Y
Northwest Family Physicians	89.1%	87.1%	-2.0%	.	.
Olmsted Medical Center	82.2%	82.9%	0.7%	.	Y
Owatonna Clinic- Mayo Health System	80.5%	76.9%	-3.6%	.	Y
Park Nicollet Health Services	92.2%	87.9%	-4.3%	Y	Y
Partners in Pediatrics- Children's Physician Network	92.0%	92.8%	0.9%	.	Y
Paynesville Area Health Care System	80.4%	75.0%	-5.4%	.	Y
Pediatric and Young Adult Medicine- Children's Physician Network	98.1%	95.1%	-3.0%	.	.
Priority Pediatrics Urgent Care	87.9%	91.6%	3.7%	.	Y
Quello Clinic	86.6%	81.5%	-5.1%	.	Y
Ridgeview Clinics	80.7%	80.0%	-0.6%	.	.
Riverview Clinics	79.0%	46.9%	-32.1%	Y	Y
Sanford Clinic	76.6%	88.9%	12.3%	Y	Y
South Lake Pediatrics- Children's Physician Network	94.6%	93.8%	-0.9%	.	.
Southdale Pediatric Associates, Ltd.	94.5%	90.7%	-3.8%	.	Y
Southern Metro Medical Clinics	61.5%	71.4%	9.9%	.	Y
St. Cloud Medical Group	81.5%	85.4%	3.9%	.	Y
St. Luke's Clinics	79.8%	82.5%	2.8%	.	Y
St.Mary's/Duluth Clinic Health System	85.5%	87.8%	2.4%	.	Y
Stillwater Medical Group	87.9%	91.1%	3.2%	.	Y
Suburban Emergency Associates	83.3%	90.6%	7.3%	.	Y
Unity Family Healthcare- Avon	79.0%	75.8%	-3.2%	.	Y
Urgent Care Doctor's Office	89.2%	93.5%	4.3%	.	Y
Wadena Medical Center	76.1%	50.0%	-26.1%	.	Y
WestHealth Urgent Care	95.1%	95.8%	0.7%	.	Y

Y = Yes, statistical significance
 * = Smaller purchaser gap within
 Medical Group than the
 statewide gap

Appropriate Testing for Children with Pharyngitis

Sixty-one medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 7 percentage points and is statistically significant. This means that the Appropriate Testing for Children with Pharyngitis statewide rate for MHCP patients (84 percent) was significantly lower than that of Other Purchasers (91 percent).

Eight medical groups had rate gaps of less than one percent suggesting little or no difference between MHCP and Other Purchaser patients. Thirty-eight of the medical groups had rates for MHCP patients that were lower than Other Purchasers; eight of these medical groups had lower MCHP rates compared to Other Purchasers within the medical group (see Column 5). Twenty-three of the medical groups had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4).

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Appropriate Testing for Children with Pharyngitis measure, one medical group had a purchaser gap that was equal to the statewide gap; 13 medical groups had bigger purchaser gaps than the gap at the statewide level; 48 medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Fifty-two medical groups had purchaser gaps that were significantly different than the statewide gap. Thirteen of these medical groups had gaps significantly bigger than the statewide gap; 39 medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There were five medical groups that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the clinic, AND their purchaser rate gap (<1 percent) was significantly smaller than the statewide purchaser rate gap (7 percent). Table 6 summarizes these findings.

**Table 40: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Appropriate Testing for Children with Pharyngitis**

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	83.7%	90.7%	7.1%	Y	
Affiliated Community Medical Centers	74.4%	78.3%	3.9%	.	.
Albert Lea Clinic - Mayo Health System	89.1%	92.2%	3.1%	.	.
Alexandria Clinic	78.5%	86.9%	8.4%	.	Y
Allina Health System	88.7%	90.5%	1.8%	.	Y*
Allina Medical Clinic	92.8%	93.5%	0.8%	.	Y*
Altru Health System	45.8%	77.9%	32.0%	Y	Y
Apple Valley Medical Clinic	88.7%	91.0%	2.3%	.	Y*
Aspen Medical Group	95.2%	94.6%	-0.5%	.	Y*
Austin Medical Center - Mayo Health System	79.2%	83.9%	4.7%	.	.
Avera Medical Group	38.0%	58.2%	20.3%	Y	Y
BMC & St. Joseph's Medical Center Clinics	64.2%	67.7%	3.6%	.	.
Brainerd Medical Center OB/GYN	69.2%	68.8%	-0.5%	.	Y*
Broadway Medical Center	55.6%	57.4%	1.8%	.	Y*
Buffalo Clinic	93.6%	91.0%	-2.5%	.	Y*
Cannon Valley Clinic - Mayo Health System	97.6%	97.4%	-0.2%	.	Y*
CCMH - Montevideo Clinic	95.7%	97.7%	1.9%	.	Y*
CentraCare Health System	81.8%	94.3%	12.5%	Y	Y
Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	94.7%	92.4%	-2.3%	.	Y*
Emergency Physicians	93.8%	97.7%	3.9%	.	.
Express Healthcare	100.0%	98.9%	-1.1%	.	Y*
Fairview Mesaba Clinics	63.6%	54.8%	-8.8%	.	Y
Fairview Health Services	91.9%	96.1%	4.2%	Y	.
Family HealthServices Minneosta	84.3%	93.7%	9.4%	Y	Y
Fridley Children's & Teenagers' Med. Center - Children's Physician	100.0%	97.7%	-2.4%	.	Y*
Glencoe Regional Health Services	79.5%	75.0%	-4.5%	.	Y*
Glenwood Medical Center	96.8%	93.8%	-3.0%	.	Y*
HealthEast	93.2%	96.1%	2.9%	.	.
HealthPartners Central Minnesota Clinics	97.4%	96.2%	-1.2%	.	Y*
HealthPartners Clinics	96.0%	95.8%	-0.3%	.	Y*
Hutchinson Medical Center	82.9%	89.8%	6.9%	.	Y*
Immanuel St. Joseph - Mayo Health System	58.7%	62.4%	3.7%	.	.

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

**Table 40: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Appropriate Testing for Children with Pharyngitis - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	83.7%	90.7%	7.1%	Y	
Innovis Health	69.2%	74.8%	5.5%	.	Y*
Lakeview Clinic, Ltd.	89.4%	95.1%	5.8%	.	Y*
Lakeview Medical Clinic	62.9%	67.6%	4.7%	.	.
Lakewood Health Center	56.1%	92.1%	36.0%	Y	Y
Mankato Clinic	78.0%	80.2%	2.3%	.	Y*
Mayo Clinic	82.5%	79.4%	-3.1%	.	Y*
MeritCare	87.2%	82.1%	-5.0%	Y	Y*
MinuteClinic	99.7%	99.9%	0.2%	.	Y*
Multicare Associates of the Twin Cities	97.0%	95.2%	-1.7%	.	Y*
North Memorial Clinic	68.8%	96.5%	27.7%	Y	Y
Northstar Physicians	76.5%	84.1%	7.6%	.	Y
Northwest Family Physicians	97.1%	95.5%	-1.6%	.	Y*
Now Care Medical Centers	93.3%	94.6%	1.3%	.	Y*
Olmsted Medical Center	81.9%	83.7%	1.8%	.	Y*
Owatonna Clinic - Mayo Health System	80.3%	82.1%	1.8%	.	Y*
Park Nicollet Health Services	91.6%	97.3%	5.7%	Y	Y*
Partners in Pediatrics - Children's Physician Network	95.5%	96.9%	1.5%	.	Y*
Paynesville Area Health Care System	95.2%	90.9%	-4.3%	.	Y*
Pediatric and Young Adult Medicine - Children's Physician Network	100.0%	98.3%	-1.7%	.	Y*
Quello Clinic	91.1%	90.2%	-0.8%	.	Y*
Riverview Clinics	30.0%	15.4%	-14.6%	.	Y
Sanford Clinic	72.9%	81.8%	8.9%	.	Y
South Lake Pediatrics - Children's Physician Network	96.4%	98.1%	1.8%	.	Y*
St. Luke's Clinics	82.4%	83.6%	1.3%	.	Y*
St. Cloud Medical Group	96.4%	94.7%	-1.7%	.	Y*
St. Mary's/Duluth Clinic Health System	67.8%	75.6%	7.8%	.	Y
Suburban Emergency Associates	96.9%	91.2%	-5.7%	.	Y*
Unity Family Healthcare - Avon	69.4%	83.3%	13.9%	.	Y
Wadena Medical Center	78.0%	78.4%	0.4%	.	Y*
WestHealth Urgent Care	97.2%	95.7%	-1.5%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Breast Cancer Screening

Sixty-four medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 13 percentage points and is statistically significant. This means that the Breast Cancer Screening statewide rate for MHCP patients (63 percent) was significantly lower than that of Other Purchasers (76 percent).

Fifty-eight medical groups had rates for MHCP patients that were lower than Other Purchasers (see Column 4). One medical group had the same rate for MHCP patients and Other Purchaser patients, and five medical groups had higher rates for MHCP patients than Other Purchasers. Forty-five medical groups had statistically significant gaps between purchasers within the medical group and forty-four of them were significantly lower for MHCP compared to Other Purchasers (see Column 5).

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Breast Cancer Screening measure, 33 medical groups had bigger purchaser gaps than the gap at the statewide level, 31 medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Fifty medical groups had purchaser gaps that were significantly different than the statewide gap. Twenty-one of these medical groups had gaps significantly bigger than the statewide gap; 29 medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There were three medical groups—**Glencoe Regional Health Services**, **NorthPoint Health and Wellness Center**, and **Wadena Medical Center** that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gaps (<5 percent) were significantly smaller than the statewide purchaser rate gap (13 percent). Table 7 summarizes these findings.

Table 41: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Breast Cancer Screening

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	62.5%	75.7%	13.2%	Y	
Affiliated Community Medical Centers	62.2%	84.7%	22.5%	Y	Y
Albert Lea Clinic - Mayo Health System	62.0%	75.4%	13.4%	Y	.
Alexandria Clinic	76.8%	85.7%	8.9%	Y	Y*
Allina Health System	72.8%	83.3%	10.5%	Y	Y*
Allina Medical Clinic	64.8%	81.9%	17.1%	Y	Y
Altru Health System	65.6%	82.7%	17.2%	Y	Y
Aspen Medical Group	68.9%	81.8%	12.8%	Y	.
Austin Medical Center - Mayo Health System	81.1%	70.9%	-10.2%	Y	Y*
Avera Medical Group	68.6%	80.1%	11.5%	Y	Y*
Bloomington Lake Clinic, Ltd.	70.3%	84.8%	14.5%	Y	.
BMC & St. Joseph's Medical Center Clinics	57.0%	79.4%	22.4%	Y	Y
Brainerd Medical Center OB/GYN	68.6%	82.8%	14.2%	Y	.
Broadway Medical Center	66.7%	75.8%	9.1%	.	Y*
Buffalo Clinic	76.8%	80.0%	3.2%	.	Y*
CentraCare Health System	62.6%	88.5%	26.0%	Y	Y
Central Lakes Medical Clinic - Northstar Physicians	74.4%	81.4%	7.0%	.	Y*
Community University Health Care Center	62.5%	80.3%	17.8%	Y	Y
Fairmont Medical Center - Mayo Health System	67.7%	81.0%	13.3%	Y	.
Fairview Health Services	66.9%	79.9%	13.0%	Y	.
Fairview Mesaba Clinics	83.3%	77.3%	-6.1%	.	Y*
Family HealthServices Minnesota	57.7%	77.0%	19.3%	Y	Y
Family Medicine of Winona	56.8%	72.0%	15.2%	.	.
Family Practice Medical Center of Willmar	76.7%	83.2%	6.5%	.	Y*
Fergus Falls Medical Group	67.9%	84.1%	16.2%	Y	Y
Fremont Community Clinics	70.7%	74.2%	3.5%	.	Y*
Gateway Family Health Clinic	45.9%	76.9%	31.0%	Y	Y
Glencoe Regional Health Services	76.7%	73.7%	-3.0%	.	Y*
Grand Itasca Clinic	75.7%	81.7%	6.1%	.	Y*
Gundersen Clinic	69.5%	87.4%	17.9%	Y	Y
HealthEast	61.9%	82.0%	20.1%	Y	Y
HealthPartners Clinics	80.7%	90.0%	9.2%	Y	Y*
Hennepin Faculty Associates & HCMC Clinics	71.0%	81.9%	10.9%	Y	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

**Table 41: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Breast Cancer Screening - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	62.5%	75.7%	13.2%	Y	
Hutchinson Medical Center	58.8%	78.9%	20.1%	Y	Y
Immanuel St. Joseph - Mayo Health System	74.2%	82.0%	7.8%	Y	Y*
Innovis Health	61.9%	78.5%	16.6%	Y	Y
Lakeview Clinic, Ltd.	71.4%	80.4%	9.0%	.	Y*
Lakewood Health Center	59.8%	81.5%	21.7%	Y	Y
Mankato Clinic	68.9%	82.6%	13.7%	Y	.
Mayo Clinic	74.5%	87.7%	13.3%	Y	.
MeritCare	71.6%	82.4%	10.9%	Y	Y*
Mille Lacs Clinics	68.9%	74.1%	5.2%	.	Y*
Multicare Associates of the Twin Cities	71.2%	81.8%	10.6%	Y	Y*
North Clinic	81.1%	83.6%	2.5%	.	Y*
North Memorial Clinic	62.0%	78.4%	16.4%	Y	Y
NorthPoint Health and Wellness Center	77.4%	75.0%	-2.4%	.	Y*
Northstar Physicians	64.1%	79.5%	15.4%	Y	.
Olmsted Medical Center	70.5%	85.0%	14.5%	Y	.
Open Cities Health Center	50.0%	50.0%	0.0%	.	Y*
Owatonna Clinic - Mayo Health System	75.2%	83.5%	8.4%	Y	Y*
Park Nicollet Health Services	75.8%	86.2%	10.4%	Y	Y*
Paynesville Area Health Care System	65.7%	80.1%	14.4%	.	.
Quello Clinic	84.4%	86.0%	1.6%	.	Y*
Ridgeview Clinics	63.3%	74.9%	11.7%	.	Y*
Riverwood Atikin Clinic	69.7%	90.0%	20.3%	Y	Y
Sanford Clinic	59.0%	84.1%	25.2%	Y	Y
St. Cloud Medical Group	53.8%	79.3%	25.6%	Y	Y
St. Luke's Clinics	70.4%	80.7%	10.3%	Y	Y*
St. Mary's/Duluth Clinic Health System	66.4%	80.9%	14.6%	Y	.
Stillwater Medical Group	48.8%	76.3%	27.5%	Y	Y
United Family Medicine	45.2%	73.2%	28.0%	Y	Y
University of Minnesota Physicians	53.7%	78.2%	24.5%	Y	Y
Wadena Medical Center	60.9%	59.8%	-1.2%	.	Y*
West Side Community Health Services	50.0%	64.5%	14.5%	.	.
Winona Health	66.2%	77.9%	11.7%	Y	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within
 Medical Group than the
 statewide gap

Cervical Cancer Screening

One hundred ten medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 6 percentage points and is statistically significant. This means that the Cervical Cancer Screening statewide rate for MHCP patients (72 percent) was significantly lower than that of Other Purchasers (78 percent).

Eight medical groups had rate gaps of less than one percentage point suggesting little or no difference between MHCP and Other Purchaser patients. One hundred one of the medical groups had rates for MHCP patients that were lower than Other Purchasers; eight of the medical groups had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4), and one medical group had the same rate for MHCP patients and Other Purchaser patients.

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Cervical Cancer Screening measure, three medical groups had a purchaser gap that was equal to the statewide gap; 64 medical groups had bigger purchaser gaps than the gap at the statewide level; 43 medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. One hundred one medical groups had purchaser gaps that were significantly different than the statewide gap. Fifty-five of these medical groups had gaps significantly bigger than the statewide gap; 46 medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There were three medical groups- **Central Lakes Medical Clinic - Northstar Physician Network, Clearwater Health Services, and Fremont Community Clinics** that had higher MHCP performance rates than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gaps (<1 percent) were significantly different from the statewide purchaser rate gap (6 percent). Table 8 summarizes these findings.

Table 42: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Cervical Cancer Screening

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	71.5%	77.9%	6.4%	Y	
Affiliated Community Medical Centers	75.2%	84.2%	9.0%	Y	Y
Albert Lea Clinic - Mayo Health System	63.1%	71.9%	8.8%	Y	Y
Alexandria Clinic	79.2%	84.3%	5.1%	.	Y*
Allina Health System	72.7%	81.8%	9.1%	Y	Y
Allina Medical Clinic	75.6%	82.9%	7.3%	Y	.
Altru Health System	74.8%	83.6%	8.8%	Y	Y
Apple Valley Medical Clinic	63.8%	80.1%	16.3%	Y	Y
Aspen Medical Group	80.3%	83.2%	2.9%	Y	Y*
Austin Medical Center - Mayo Health System	76.0%	76.0%	0.1%	.	Y*
Avera Medical Group	79.0%	84.6%	5.6%	Y	Y*
Bloomington Lake Clinic, Ltd.	73.4%	84.3%	10.8%	.	Y
BMC & St Joseph's Medical Center Clinics	62.0%	73.2%	11.2%	Y	Y
Brainerd Medical Center OB/GYN	81.4%	86.2%	4.8%	.	Y*
Broadway Medical Center	67.9%	77.7%	9.8%	Y	Y
Buffalo Clinic	78.1%	87.1%	9.0%	Y	Y
Cannon Falls Medical Center - Mayo Health System	68.4%	79.8%	11.4%	.	Y
Cannon Valley Clinic - Mayo Health System	78.5%	81.0%	2.5%	.	Y*
CCMH-Montevideo Clinic	68.3%	81.1%	12.8%	Y	Y
CentraCare Health System	81.6%	87.0%	5.4%	Y	Y*
Central Lakes Medical Clinic - Northstar Physician	78.1%	77.7%	-0.3%	.	Y*
Clearwater Health Services	75.0%	74.4%	-0.6%	.	Y*
Community University Health Care Center	75.0%	84.7%	9.7%	Y	Y
Dawson Clinic	80.0%	90.5%	10.5%	.	Y
Edina Family Physicians	80.4%	90.5%	10.1%	Y	Y
ELEAH Medical Center	64.6%	76.9%	12.3%	.	Y
Fairmont Medical Center - Mayo Health System	66.2%	77.2%	10.9%	Y	Y
Fairview Health Services	77.8%	84.0%	6.3%	Y	Y*
Fairview Mesaba Clinics	72.5%	78.5%	6.1%	.	Y*
Family HealthServices Minnesota	74.3%	77.8%	3.5%	Y	Y*
Family Medicine Of Winona	74.5%	69.4%	-5.1%	.	Y*
Family Practice Medical Center Of Willmar	83.2%	87.6%	4.3%	.	Y*
Familyhealth Medical Clinics	68.9%	81.4%	12.5%	Y	Y
Fergus Falls Medical Group	67.1%	77.5%	10.4%	Y	Y
Foley Medical Center	57.8%	78.1%	20.3%	Y	Y
Franciscan Skemp - Mayo Health System	67.1%	76.7%	9.5%	.	Y
Fremont Community Clinics	76.7%	76.5%	-0.2%	.	Y*
Gateway Family Health Clinic	64.8%	70.4%	5.7%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

**Table 42: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Cervical Cancer Screening - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	71.5%	77.9%	6.4%	Y	
Glencoe Regional Health Services	79.4%	81.9%	2.5%	.	Y*
Glenwood Medical Center	60.5%	78.0%	17.6%	Y	Y
Grand Itasca Clinic	58.6%	79.3%	20.7%	Y	Y
Gundersen Clinic	67.9%	81.4%	13.6%	Y	Y
Healtheast	71.0%	82.0%	11.0%	Y	Y
HealthPartners Central Minnesota Clinics	82.1%	84.1%	2.0%	.	Y*
HealthPartners Clinics	80.2%	85.5%	5.3%	Y	Y*
Hennepin Faculty Associates & HCMC Clinics	74.9%	81.3%	6.4%	Y	Y
Hutchinson Medical Center	66.9%	72.5%	5.6%	.	Y*
Immanuel St. Joseph - Mayo Health System	74.8%	78.4%	3.6%	.	Y*
Innovis Health	72.8%	82.4%	9.6%	Y	Y
John A. Haugen Associates	100.0%	97.0%	-3.1%	.	Y*
Kittson Memorial Clinic	67.6%	66.2%	-1.3%	.	Y*
Lac Qui Parle Clinic	74.2%	80.7%	6.5%	.	Y
Lake City Medical Center and Clinic - Mayo Health	69.2%	75.0%	5.8%	.	Y*
Lakeview Clinic, Ltd.	78.5%	85.0%	6.5%	Y	Y
Lakeview Medical Clinic	80.0%	77.5%	-2.5%	.	Y*
Lakewood Health Center	79.3%	83.6%	4.3%	.	Y*
Lakewood Health Center	58.6%	83.0%	24.4%	Y	Y
Mankato Clinic	78.4%	85.0%	6.6%	Y	Y
Mayo Clinic	76.7%	76.9%	0.1%	.	Y*
MeritCare	73.9%	83.0%	9.1%	Y	Y
Metropolitan OB & GYN	91.8%	98.3%	6.5%	Y	Y
Mid Minnesota Family Medicine Center	74.5%	81.8%	7.2%	.	.
Mille Lacs Clinics	67.8%	74.7%	7.0%	.	.
MinuteClinic	48.2%	75.7%	27.5%	Y	Y
Multicare Associates Of The Twin Cities	73.6%	83.0%	9.4%	Y	Y
Murray County Clinic	56.4%	71.6%	15.2%	.	Y
North Clinic	76.1%	84.0%	7.9%	Y	.
North Memorial Clinic	70.3%	80.7%	10.4%	Y	Y
NorthPoint Health and Wellness Center	73.5%	77.8%	4.3%	.	Y*
Northstar Physicians	77.9%	78.4%	0.5%	.	Y*
Northwest Family Physicians	74.6%	81.2%	6.6%	.	Y
Now Care Medical Centers	69.5%	69.5%	0.0%	.	Y*
Oakdale OB/GYN	92.1%	96.9%	4.8%	Y	Y*
Obstetrics & Gynecology Associates	91.5%	97.6%	6.2%	Y	Y*
Obstetrics, Gyn & Infertility	96.9%	98.4%	1.5%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

**Table 42: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Cervical Cancer Screening - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	71.5%	77.9%	6.4%	Y	
Olmsted Medical Center	72.0%	80.2%	8.2%	Y	.
Open Cities Health Center	68.3%	58.9%	-9.4%	.	Y
Owatonna Clinic - Mayo Health System	76.2%	81.5%	5.2%	Y	Y*
Park Nicollet Health Services	77.6%	86.7%	9.1%	Y	Y
Parkview Medical Clinic	60.6%	82.5%	21.9%	Y	Y
Partners OB/GYN	94.4%	96.5%	2.1%	.	Y*
Paynesville Area Health Care System	71.6%	78.0%	6.4%	.	Y*
Planned Parenthood Of Minnesota, North Dakota, South Dakota	78.2%	88.5%	10.3%	Y	Y
Quello Clinic	83.1%	86.6%	3.5%	.	Y*
Renville County Hospital And Clinics	73.3%	81.6%	8.3%	.	.
Ridgeview Clinics	71.6%	80.3%	8.7%	Y	Y
Riverview Clinics	67.0%	83.1%	16.1%	Y	Y
Riverwood Aitkin Clinic	72.8%	79.2%	6.4%	.	Y
Sanford Clinic	76.2%	85.2%	9.0%	Y	Y
Scenic Rivers Health Services	66.7%	78.2%	11.5%	.	Y
Silver Lake Clinic	78.6%	82.8%	4.2%	.	Y*
Southdale OB/GYN Consultants	97.4%	99.4%	1.9%	.	Y*
Southern Metro Medical Clinics	68.5%	79.9%	11.4%	.	Y
Southside Community Health Services	70.5%	85.0%	14.6%	.	Y
St. Cloud Medical Group	77.2%	84.6%	7.4%	Y	.
St. Croix Regional Medical Center	67.7%	78.6%	10.8%	.	Y
St. Luke's Clinics	69.6%	74.4%	4.9%	.	Y*
St. Mary's/Duluth Clinic Health System	74.9%	78.6%	3.7%	Y	Y*
St. Paul Family Medical Center	58.0%	68.4%	10.4%	.	Y
Stevens Community Medical Center - Morris	71.4%	84.4%	12.9%	Y	Y
Stillwater Medical Group	73.4%	80.3%	7.0%	Y	.
Superiorhealth Center	67.7%	79.2%	11.5%	.	Y
United Family Medicine	75.0%	81.3%	6.3%	Y	Y*
United Hospital District Clinics	60.3%	75.6%	15.2%	Y	Y
Unity Family Healthcare - Avon	60.0%	80.5%	20.5%	Y	Y
University Of Minnesota Physicians	72.6%	82.6%	10.0%	Y	Y
Wadena Medical Center	68.0%	68.4%	0.4%	.	Y*
West Side Community Health Services	70.9%	79.4%	8.5%	.	.
Williams Integracare Clinic	58.8%	83.2%	24.4%	Y	Y
Winona Health	72.6%	81.2%	8.6%	Y	Y
Women's Health Consultants	94.9%	98.2%	3.3%	.	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within
 Medical Group than the
 statewide gap

Colorectal Cancer Screening

Ten medical groups met the minimum reporting requirement of at least 60 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 21 percentage points and is statistically significant. This means that the Colorectal Cancer Screening statewide rate for MHCP patients (47 percent) was significantly lower than that of Other Purchasers (68 percent).

Nine of the ten medical groups had rates for MHCP patients that were lower than Other Purchasers (see Column 4) and all ten had statistically significant gaps between purchasers (see Column 5).

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Colorectal Cancer Screening measure, five medical groups had bigger purchaser gaps than the gap at the statewide level; five medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Three medical groups had purchaser gaps that were significantly different than the statewide gap. Two of these medical groups had gaps significantly bigger than the statewide gap; one medical group had a gap significantly smaller than the statewide gap (see Column 6). Table 9 summarizes these findings.

Table 43: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Colorectal Cancer Screening

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	46.5%	67.8%	21.3%	Y	
Allina Health System	46.7%	72.5%	25.8%	Y	Y
Allina Medical Clinic	49.5%	72.6%	23.1%	Y	.
Aspen Medical Group	48.7%	68.9%	20.2%	Y	.
Fairview Health Services	52.8%	74.0%	21.2%	Y	.
Family HealthServices Minneosta	43.0%	78.9%	36.0%	Y	Y
Health Partners Clinics	60.7%	79.2%	18.5%	Y	.
HealthEast	64.3%	84.0%	19.7%	Y	.
North Memorial Clinic	46.1%	62.4%	16.3%	Y	Y*
Park Nicollet Health Services	48.6%	70.4%	21.8%	Y	.
St. Mary's Duluth Clinic Health System	61.2%	32.9%	-28.3%	Y	.

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Chlamydia Screening

Sixty-six medical groups met the minimum reporting requirement of at least 30 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 10 percentage points and is statistically significant. The sign is negative, however, which means that the Chlamydia Screening rate for MHCP patients (57 percent) was significantly higher than that of Other Purchasers (47 percent).

One medical group had a rate gap of less than one percentage point suggesting little or no difference between MHCP and Other Purchaser patients. Seven of the medical groups had rates for MHCP patients that were lower than Other Purchasers; fifty-nine of the medical groups had rates for MHCP patients that were higher than Other Purchasers (designated with negative signs in Column 4); twenty-nine of these medical groups had a statistically significant gap between purchasers (see Column 5).

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Chlamydia Testing measure, thirty-three medical groups had bigger purchaser gaps than the gap at the statewide level; 33 medical groups had smaller purchaser gaps. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Fifty-six medical groups had purchaser gaps that were significantly different than the statewide gap. Twenty-three of these medical groups had gaps significantly bigger than the statewide gap; 33 medical groups had gaps significantly smaller than the statewide gap (see Column 6).

There were two medical groups - **Central Lakes Medical Clinic** and **Stillwater Medical Group**- that had a higher MHCP performance rate than Other Purchasers, no significant gap between purchasers within the medical group, AND their purchaser rate gap was not significantly different from the statewide purchaser rate gap. Table 10 summarizes these findings.

Table 44: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Chlamydia Screening

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	56.6%	46.5%	-10.1%	Y	
Affiliated Community Medical Centers	55.3%	49.2%	-6.1%	.	Y*
Albert Lea Clinic - Mayo Health System	55.7%	46.8%	-8.9%	.	Y*
Alexandria Clinic	27.3%	19.8%	-7.4%	.	Y*
Allina Health System	64.8%	37.1%	-27.7%	Y	Y
Allina Medical Clinic	67.2%	58.4%	-8.9%	Y	Y*
Altru Health System	32.3%	28.1%	-4.2%	.	Y*
Aspen Medical Group	64.9%	49.5%	-15.4%	Y	Y
Austin Medical Center - Mayo Health System	52.5%	42.0%	-10.5%	.	.
Avera Medical Group	35.1%	32.6%	-2.4%	.	Y*
BMC & St. Joseph's Medical Center Clinics	44.6%	42.3%	-2.3%	.	Y*
Brainerd Medical Center OB/GYN	53.2%	42.7%	-10.5%	.	.
Broadway Medical Center	27.6%	37.4%	9.8%	.	Y*
Buffalo Clinic	52.0%	44.4%	-7.6%	.	Y*
Cannon Valley Clinic- Mayo Health System	51.4%	43.6%	-7.8%	.	Y*
CentraCare Health System	54.7%	49.4%	-5.3%	.	Y*
Central Lakes Medical Clinic - Northstar Physicians Network	39.3%	27.5%	-11.8%	.	.
Children's Hospital Clinics MPLS, St. Paul, TAMS, PACE	61.2%	50.5%	-10.7%	Y	.
Community University Health Care Center	62.8%	53.0%	-9.8%	.	Y*
Face to Face Health & Counseling	81.2%	74.2%	-7.0%	.	Y*
Fairview Health Services	61.9%	54.0%	-7.8%	Y	Y*
Fairmont Medical Center - Mayo Health System	27.8%	26.5%	-1.3%	.	Y*
Fairview Mesaba Clinics	47.6%	55.4%	7.8%	.	Y*
Family Medicine of Winona	27.8%	20.6%	-7.2%	.	Y*
Family Practice Medical Center of Willmar	61.1%	66.7%	5.6%	.	Y*
Fergus Falls Medical Group	39.0%	44.4%	5.4%	.	Y*
Gateway Family Health Clinic	47.4%	36.6%	-10.8%	.	.
Glencoe Regional Health Services	53.2%	49.4%	-3.8%	.	Y*
Grand Itasca Clinic	58.9%	44.0%	-14.8%	Y	Y
Gundersen Clinic	61.0%	41.5%	-19.5%	Y	Y
HealthEast	59.1%	52.1%	-7.0%	.	Y*
HealthPartners Central MN Clinics	59.0%	52.9%	-6.1%	.	Y*
HealthPartners Clinics	76.5%	70.3%	-6.2%	Y	Y*

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

**Table 44: Statistical Analysis Summary of Purchaser Performance Rate Gaps -
Chlamydia Screening - *continued***

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	56.6%	46.5%	-10.1%	Y	
Hennepin Faculty Associates & HCMC Clinics	82.7%	65.5%	-17.3%	Y	Y
Hutchinson Medical Center	42.2%	42.9%	0.7%	.	Y*
Immanuel St. Joseph - Mayo Health System	53.3%	42.9%	-10.4%	Y	.
Innovis Health	44.4%	27.9%	-16.5%	Y	Y
Lakeview Clinic, Ltd.	75.0%	56.9%	-18.1%	Y	Y
Lakewood Health Center	42.5%	25.0%	-17.5%	Y	Y
Mankato Clinic	56.0%	44.3%	-11.7%	Y	.
Mayo Clinic	60.7%	38.8%	-22.0%	Y	Y
MeritCare	32.7%	27.4%	-5.3%	Y	Y*
Mid Minnesota Family Medicine Center	57.1%	42.2%	-14.9%	.	Y
Multicare Associates of the Twin Cities	59.6%	44.6%	-15.0%	Y	Y
North Clinic	48.8%	41.6%	-7.2%	.	Y*
North Memorial Clinic	69.4%	48.0%	-21.4%	Y	Y
Northstar Physicians	47.9%	46.5%	-1.3%	.	Y*
Oakdale OB/GYN	79.5%	35.0%	-44.5%	Y	Y
Olmsted Medical Center	51.7%	37.3%	-14.4%	Y	.
Owatonna Clinic - Mayo Health System	49.6%	48.5%	-1.1%	.	Y*
Park Nicollet Health Services	67.8%	53.2%	-14.7%	Y	Y
Paynesville Area Health Care System	34.0%	20.8%	-13.2%	.	Y
Planned Parenthood of MN, ND, SD	64.2%	50.3%	-13.8%	Y	Y
Quello Clinic	59.1%	60.5%	1.4%	.	Y*
Ridgeview Clinics	53.1%	34.8%	-18.4%	Y	Y
Riverview Clinics	33.3%	35.7%	2.4%	.	Y*
Sanford Clinic	40.7%	36.4%	-4.4%	.	Y*
St. Cloud Medical Group	52.0%	42.9%	-9.1%	.	Y*
St. Luke's Clinics	59.5%	37.8%	-21.7%	Y	Y
St. Mary's/Duluth Clinic Health System	55.3%	40.6%	-14.7%	Y	Y
Stillwater Medical Group	60.8%	48.6%	-12.2%	.	.
United Family Medicine	73.7%	56.7%	-17.0%	Y	Y
United Hospital District Clinics	52.6%	18.2%	-34.5%	Y	Y
University of Minnesota Physicians	64.0%	48.3%	-15.7%	Y	Y
Wadena Medical Center	16.7%	9.4%	-7.2%	.	Y*
West Side Community Health Services	44.4%	22.8%	-21.6%	Y	Y
Winona Health	53.5%	43.1%	-10.4%	.	.

Y = Yes, statistical significance
 * = Smaller purchaser gap within Medical Group than the statewide gap

Childhood Immunization Status (Combo 3)

Five medical groups met the minimum reporting requirement of at least 60 patients per purchaser for this analysis. The purchaser performance rate gap at the statewide level was 1 percentage points and is not statistically significant. This means that the Childhood Immunization statewide rate for MHCP patients (75 percent) was not significantly lower than that of Other Purchasers (77 percent).

One medical group – Allina Medical Clinic – had a rate gap of less than one percentage point suggesting little or no difference between MHCP and Other Purchaser patients. Two of the medical groups had rates for MHCP patients that were lower than Other Purchasers; one of these groups had a statistically significant gap between purchasers. Three medical groups had a rate for MHCP patients that was higher than Other Purchasers (designated with negative signs in Column 4); one of the medical groups had a statistically significant gap between purchasers.

We also assessed whether the absolute value of the gap between purchasers at a medical group level was bigger or smaller than the gap found at the statewide level. For the Childhood Immunization measure, four medical groups had bigger purchaser gaps than the gap at the statewide level; one medical group had a smaller purchaser gap. Next, we tested the significance of each medical group purchaser gap compared to the statewide purchaser gap. Four medical groups had purchaser gaps that were significantly different than the statewide gap. All four of these medical groups had gaps significantly bigger than the statewide gap (see Column 6).

There was one medical group – Allina Medical Clinic – that had a higher MHCP performance rate, no significant gap between purchasers within the medical group, AND their purchaser rate gaps were not significantly different from the statewide purchaser rate gap. Table 11 summarizes these findings.

Table 45: Statistical Analysis Summary of Purchaser Performance Rate Gaps - Childhood Immunization Status (Combo 3)

Medical Group	MHCP Rate	Other Purchasers Rate	Percentage Point Rate Differences (Other-MHCP)	There is a significant gap within the medical group between purchasers.	There are significant differences between the statewide gap and the medical group gap
Statewide	75.4%	76.6%	1.2%	.	
Allina Medical Clinic	80.0%	79.2%	-0.7%	.	.
Fairview Health Services	75.2%	82.7%	7.5%	.	Y
HealthPartners Clinics	82.4%	89.6%	7.2%	Y	Y
Park Nicollet Health Services	86.0%	81.0%	-5.0%	.	Y
Sanford Clinic	84.1%	71.3%	-12.9%	Y	Y

Y = Yes, statistical significance

Appendix 6: Glossary

Attributed patient for Measures Collected by Health Plans (Administrative and Hybrid) – A patient assigned, or attributed, to a medical group for measurement purposes when the patient had one or more visits to that medical group during the measurement year. If a patient visited more than one medical group during the measurement year, the patient was attributed to the clinic at which he or she was seen the greatest number of times. If the number of visits to two different medical groups was the same, the patient was attributed to the medical group he or she visited most recently. An example of an unattributed patient could be someone a health plan identified using pharmacy data. Since this patient did not visit a medical group during the measurement year he or she could not be assigned to a medical group during the attribution process.

Attributed patient for Measures Collected by Direct Data Submission – Medical groups must attribute each patient to a single clinic within their medical group. Each medical group's patient attribution method is defined by the medical group and is then reviewed by MNCM as part of the denominator certification process.

Benchmarks – The benchmarks (standards used for comparisons) include the 2010 national commercial HEDIS rate and the 2010 national Medicaid HEDIS rate. The benchmark HEDIS rate is a national average of more than 90 percent of managed health care plans and some PPO health plans that submit data to NCQA to measure performance against a detailed set of measure criteria. Benchmarks were included in this report for measures with a comparable national Medicaid HEDIS rate (Appropriate Treatment for Children with Upper Respiratory Infection, Appropriate Testing for Children with Pharyngitis, Cervical Cancer Screening, Chlamydia Screening, and Childhood Immunization Status).

Clinic- Any location where primary or specialty care ambulatory services are provided for a fee by one or more physicians.

DDS measures- Direct Data Submission process. Optimal Diabetes Care, Optimal Vascular Care, and Depression Remission at Six Months results are calculated using data submitted by medical groups/clinics. These data come from electronic health records or paper-based medical charts.

Dual Eligibles – Patients who were enrolled in both Medicare and Minnesota State Public programs.

HEDIS measures– Healthcare Effectiveness Data and Information Set. HEDIS measures, produced by the National Committee for Quality Assurance, are a set of standardized, quantifiable measures designed to allow reliable comparisons of the performance of insurers and care providers across a broad range of important health issues. The following measures are HEDIS measures: Controlling High Blood Pressure, Appropriate Medications for People with Asthma, Appropriate Treatment for Children with URI, Appropriate Testing for Children with Pharyngitis, Breast Cancer Screening, Cervical Cancer Screening, Colorectal Cancer Screening, Chlamydia Screening, Childhood Immunization Status. The data source for these measures come from health plan claims and/or medical record review. Health plan files are aggregated and then results are reported at the medical group level. The federal Tax Identification Number (TIN) is used as the common identifier for aggregating files across all health plans.

Institute for Clinical Systems Improvement (ICSI) – ICSI is an independent collaborative that helps its members provide evidence-based health care services to patients. Comprised of 62 medical groups and sponsored by five Minnesota and Wisconsin health plans, ICSI unites diverse stakeholders to deliver patient-centered and value-driven care in Minnesota and surrounding areas.

(continued on next page)

Appendix 6: Glossary

Measure categories – MN Community Measurement groups measures into the following categories to summarize medical group/clinic performance:

- **Living with Illness measures** – This category includes measures that assess how well medical groups care for patients with chronic conditions such as asthma, diabetes, or depression.
- **Getting Better measures** – This category includes measures that assess how well medical groups care for patients with common acute illnesses such as colds and sore throats.
- **Staying Healthy measures** – This category includes measures that assess how well medical groups keep individuals healthy and identify disease at an early stage when it can be treated most effectively such as cancer screenings and childhood immunizations.

Medical group – One or more clinic sites operated by a single organization, made up of many providers, at multiple clinics and/or multiple locations.

Minnesota Health Care Programs (MHCP) – These health care programs (i.e., Medical Assistance including dual eligibles, MinnesotaCare, General Assistance Medical Care) provide service under both fee-for-service and managed care delivery systems purchased by the Minnesota Department of Human Services. This report only includes performance rates for the managed care programs (i.e., Medical Assistance including dual eligibles, MinnesotaCare and General Assistance Medical Care).

MHCP medical group average – Represents the average performance of all medical groups for patients covered by MHCP. The MHCP medical group average includes ONLY those MHCP patients who were attributed to medical groups. Some medical groups meet the minimum threshold necessary for MN Community Measurement to report on the medical group's performance and some do not, but all of their data are included in calculating this average. This rate is the most appropriate average to use on the graphs that compare a single medical group with the performance of all medical groups. The medical group average might be slightly higher than the MHCP statewide average because it only includes patients who accessed care within the measurement year. MHCP medical group averages are only used on charts that compare groups.

MHCP statewide average – Represents the average performance rate at the statewide level for all attributed MHCP patients. MHCP statewide averages include patients who were attributed to a medical group AND patients who were not attributed to a medical group.

MN Community Measurement (MNCM) – Minnesota Community Measurement is an independent, community-based, non-profit organization dedicated to accelerating the improvement of health in Minnesota and surrounding communities through measurement and public reporting of health care performance. For more information, visit, www.mcnm.org. MNCM's consumer-friendly website can be found at www.mnhealthscores.org.

Statewide rates – Includes patients meeting measurement criteria enrolled in managed care health plans including commercial, Medicaid managed care and Medicare managed care.

National Committee for Quality Assurance (NCQA) – A national non-profit organization dedicated to improving health care quality. NCQA accredits and certifies a wide range of health care organizations, and produces HEDIS measures.

Other Purchasers – Commercial (employer-based insurance coverage) and Medicare managed care data (excludes dual eligibles insured through MHCP). Other Purchasers includes health plan data from commercial HMO/POS and some PPO products, plus Medicare Cost and Medicare Advantage.

Self Pay – Patients who pay for their own health care services.

Appendix 7: Measure Definitions

"Living with Illness" Measures

- **Optimal Diabetes Care** – Measures the percentage of patients with diabetes (Types 1 and 2) ages 18-75 who reached all five treatment goals to reduce the risk of cardiovascular disease. The treatment goals include hemoglobin A1c (A1c) less than 8, blood pressure less than 130/80 mmHg, LDL-C less than 100 mg/dl, daily aspirin use (ages 41-75) and documented tobacco-free status.
- **Optimal Vascular Care** – Measures the percentage of patients with vascular disease ages 18-75 who reached all four treatment goals to reduce modifiable risk factors. The treatment goals include blood pressure less than 130/80 mmHg, LDL-C less than 100 mg/dl, daily aspirin use and documented tobacco-free status.
- **Depression Remission at Six Months** – Based on the denominator of patients with a diagnosis of major depression or dysthymia whose initial PHQ-9 score is greater than nine. Measures the percentage of patients whose PHQ-9 score is less than five at six months after their initial score was documented (the definition of remission).
- **Controlling High Blood Pressure** – Measures the percentage of patients ages 18-85 with a diagnosis of hypertension whose blood pressure was adequately controlled at less than 140/90 mmHg during the measurement year. The representative blood pressure is the most recent blood pressure reading during the measurement year (as long as the reading occurred after the diagnosis of hypertension was made).
- **Use of Appropriate Medications for People with Asthma** – Measures the percentage of patients ages 5-50 with persistent asthma in the measurement year and prior year who were appropriately prescribed medication during the measurement year.

"Getting Better" Measures

- **Appropriate Treatment for Children with Upper Respiratory Infection** – Measures the percentage of children ages three months to 18 years with a diagnosis of upper respiratory infection (URI) who were not given an antibiotic prescription within three days of the episode period (July 1 of prior year to June 30 of measurement year). A higher rate represents better performance.
- **Appropriate Testing for Children with Pharyngitis** – Measures the percentage of children ages 2-18 with pharyngitis (sore throats) who were given an antibiotic and a group A streptococcus (strep) test for the episode period (July 1 of prior year to June 30 of measurement year). A higher rate represents better performance.

"Staying Healthy" Measures

- **Breast Cancer Screening** – Measures the percentage of women 52-69 who had a mammogram during the measurement year or prior year.
- **Cervical Cancer Screening** – Measures the percentage of women ages 24-64 who received one or more Pap tests to screen for cervical cancer in the measurement year or the two years prior.
- **Colorectal Cancer Screening** – Measures the percentage of adults ages 51-75 who had appropriate screening for colorectal cancer. One or more screenings. Appropriate screenings are defined by one of the following criteria.
 - Fecal occult blood test (FOBT) during the measurement year.
 - Flexible sigmoidoscopy during the measurement year or the four years prior.
 - Colonoscopy during the measurement year or the nine years prior.
- **Chlamydia Screening** – Measures the percentage of sexually active women aged 16-24 who had at least one test for Chlamydia infection during the measurement year.
- **Childhood Immunization Status (Combo 3)** – Measures the percentage of children two years of age who had four DTaP/DT, three IPV, one MMR, two H influenza type B, three Hepatitis B, one VZV, and four pneumococcal conjugate vaccines within the HEDIS specified time period and by their second birthday.

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