

2007 HEALTH CARE DISPARITIES REPORT

for Minnesota Health Care Programs

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



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Minnesota Department of **Human Services**

2007 HEALTH CARE DISPARITIES REPORT *for Minnesota Health Care Programs*

(For care delivered in 2006)

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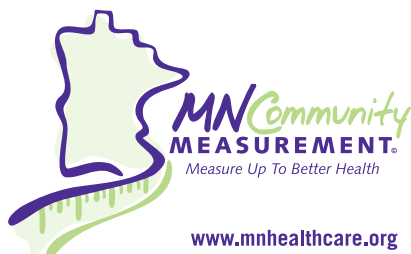
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Table of Contents

2007 HEALTH CARE DISPARITIES REPORT *for Minnesota Health Care Programs*

I.	EXECUTIVE SUMMARY	2
II.	INTRODUCTION	6
III.	DATA SOURCES AND DATA COLLECTION	7
IV.	MEASURES	8
V.	METHODOLOGY	9
VI.	HIGH PERFORMING MEDICAL GROUPS	12
VII.	MEDICAL GROUP PERFORMANCE VARIATION	17
VIII.	MHCP STATEWIDE AND MEDICAL GROUP RESULTS BY MEASURE	18

“Living with Illness” measures

- Use of Appropriate Medications for People with Asthma ... 18
- Optimal Diabetes Care 22

“Getting Better” measures

- Treatment for Children with Upper Respiratory Infection ... 24
- Testing for Children with Pharyngitis 28

“Staying Healthy” measures

- Breast Cancer Screening 32
- Cervical Cancer Screening 34
- Chlamydia Screening in Women 38
- Childhood Immunizations 42

IX.	MHCP AND OTHER PURCHASERS RATE COMPARISONS	44
X.	FUTURE PLANS	63
XI.	ACKNOWLEDGEMENTS	64
XII.	LIST OF MEDICAL GROUPS AND CLINICS REPORTED	65

Executive Summary

In 2005, the Minnesota Legislature directed the Minnesota Department of Human Services (DHS) to establish a performance reporting and quality improvement system for medical groups that provide health care services to patients insured through Minnesota Health Care Programs (i.e., Medical Assistance including dual eligibles, MinnesotaCare and General Assistance Medical Care). These patients represent a population with lower socioeconomic status, as well as a disproportionate share of persons of color, American Indians, persons with disabilities, and elders when compared to the overall population in Minnesota.

The *2007 Health Care Disparities Report for Minnesota Health Care Programs* was designed and produced by MN Community Measurement (MNCM), under contract with DHS, to respond to this legislative mandate. Its primary purpose is to present Minnesota statewide and medical group rates of performance on eight quality measures for patients in Minnesota Health Care Programs (MHCP) who are served by health plans. Secondly, it reports on differences in rates of care provided by medical groups between patients insured through MHCP and those insured through Other Purchasers (i.e., commercial insurers or Medicare managed care).

The data used for the report were derived from administrative claims data from health plans and/or medical record review. The data set reflects patients insured through MHCP from six health plans and two county-based purchasing organizations. The data do not include the uninsured, patients who self pay, or patients in MHCP under a fee-for-service payment system. These data were collected by the health plans using the Healthcare Effectiveness Data and Information Set (HEDIS) *2007 Technical Specifications* (2006 dates of service).

The eight measures in the report were selected by DHS based on relevance to patients enrolled in

MHCP. These measures included:

- Appropriate Treatment for Children with Upper Respiratory Infection
- Appropriate Testing for Children with Pharyngitis
- Breast Cancer Screening
- Cervical Cancer Screening
- Childhood Immunization Status (Combo 3)
- Chlamydia Screening
- Optimal Diabetes Care
- Use of Appropriate Medications for People with Asthma

This Report can assist in identifying opportunities for future activities:

- MNCM and DHS will continue to produce this report annually and provide further trending of performance rates.
- The differences in performance rates at the statewide level and by purchaser within a medical group will help direct resources for quality improvement within medical group practices. Case studies of medical groups that have higher performance rates for MHCP clients may offer insights that could be used by others to improve care for this population.
- MNCM will explore ways to obtain additional data, such as MHCP patient's race, ethnicity or primary language, which may further our understanding of health care disparities.

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Executive Summary

2007 Summary of Statewide Rates (2006 Dates of Services)

	Quality Measure	MHCP Average	Other Purchasers Average	Rate Difference (MHCP – Other Purchasers)
Living with Illness Measures	Asthma Care (Ages 5-56)	88.1%	92.6%	-4.5%
	Optimal Diabetes Care (Ages 18-75)	6.5%	11.4%	-4.9%
Getting Better Measures	Appropriate Treatment for Children with URI (Ages 3 months to 18 years)	73.0%	85.9%	-12.9%
	Appropriate Testing for Children with Pharyngitis (Ages 2-18)	83.8%	85.0%	-1.2%
Staying Healthy Measures	Breast Cancer Screening (Ages 52-69)	57.6%	77.1%	-19.5%
	Cervical Cancer Screening (Ages 21-64)	71.9%	79.0%	-7.1%
	Chlamydia Screening (Ages 16-25)	47.9%	37.7%	+10.2%
	Childhood Immunizations (Age 2)	68.2%	78.3%	-10.1%

Key Findings

- Seven of the eight statewide measures demonstrated significantly *lower* rates of performance for patients insured through MHCP compared to patients insured through Other Purchasers.
- In general, MHCP patients had lower rates of care than patients at the same medical group insured through Other Purchasers, although most of these differences are not significant because of small sample sizes.
- The comparison of 2007 statewide results (2006 dates of service) with 2006 statewide results (2005 dates of service) showed small differences.
- Six medical groups – HealthPartners Medical Group, Children's Physician Network, Park Nicollet Health Services, Aspen Medical Group, CentraCare Health System, and Mayo Clinic – achieved above-average rates of care for patients insured through MHCP more frequently than other medical groups.
- We observed considerable variation across medical groups for all measures; however, this variation is commonly seen in MN Community Measurement reporting and is not unique to MHCP.
- MHCP rates are highest for asthma care and appropriate treatment of children with upper respiratory infections. The largest gap between MHCP and Other Purchasers occurred for breast cancer screening.

Glossary

Attributed patient – A patient is assigned, or attributed, to a medical group for measurement purposes when the patient has had one or more visits to that medical group during the measurement year. If a patient has visited more than one medical group during the measurement year, the patient is attributed to the clinic at which he or she was seen the most number of times. If the number of visits to two different medical groups was the same, the patient is attributed to the medical group he or she visited most recently. An unattributed patient could be someone identified by the health plans as having diabetes using pharmacy data; however, since this patient did not visit a medical group during the measurement year he or she would not be assigned to a medical group during the attribution process.

DUAL ELIGIBLES – Patients who are enrolled in both Medicare and Medical Assistance programs.

HEDIS – 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.

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 57 medical groups and sponsored by six Minnesota health plans, ICSI unites diverse stakeholders to deliver patient-centered and value-driven care in Minnesota and surrounding areas.

Measure categories – Multiple measures are grouped into the following categories to summarize medical group performance:

“Living with Illness” measures

This category includes measures that assess how well medical groups care for patients with chronic conditions such as asthma or diabetes.

“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.

Medical group – One or more clinic sites operated by a single organization.

MHCP – Minnesota Health Care Programs. 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 data from managed care programs.

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Glossary

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 reporting thresholds 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 to 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 medical groups.

MHCP statewide average – Represents the average performance rate at the statewide level for all attributed MHCP patients. MHCP statewide averages include those patients who were attributed to a medical group AND those who were not attributed to a medical group. An unattributed patient could be someone identified by the health plans as having diabetes using pharmacy data; however, since this patient did not have a clinic visit during the measurement year they could not be assigned to a medical group.

MNCM – MN Community Measurement. 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.mnhealthcare.org.

MNCM statewide rates – Combines MHCP data with Other Purchaser's data.

NCQA – National Committee for Quality Assurance. 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. For more information, visit www.ncqa.org.

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

Self Pay – Patients who do not have health care coverage.

Introduction

A large body of literature documents disparities that exist in the delivery of health care in the United States. Numerous studies have examined the reasons for and consequences of racial, ethnic, gender and socioeconomic disparities in utilization of health care services and the diagnosis and clinical management of many conditions (Fiscella et al, 2000; Horner et al, 2004). Among these factors, socioeconomic status (SES) emerges as a fundamental determinant of health (Fiscella, 2004). Patients of lower socioeconomic status have higher rates of disease that are compounded by their inability to access and maintain continuity with health care providers.

Health disparities across levels of SES begin prenatally. Disparities in receipt of childhood immunizations and preventive care emerge at infancy. By preteen years, children of lower SES report lower health status and higher incidence of risk behaviors that continue to present disadvantages to life and health into adolescence and adulthood, where disparities in preventive health and health care outcomes become most striking (Fiscella, 2004; Fiscella and Williams, 2004).

Studies also show that persons of lower SES receive less ambulatory and hospital care (Fiscella et al, 2000; Bernheim et al, 2008). Whether measured by income, educational achievement or occupational status, lower SES is associated with health care disparities such as fewer Papanicolaou tests, mammograms, childhood and influenza immunizations and diabetic eye exams (Fiscella et al, 2000; Finkelstein et al, 2002; Franks and Fiscella,

2002; Lieu et al, 2002; Bernheim et al, 2008; Ward et al, 2008).

In 2005, the Minnesota Legislature directed the Minnesota Department of Human Services (DHS) to establish a performance reporting and quality improvement system for medical groups that provide health care services to MHCP patients. These patients represent a population considered at risk due to low socioeconomic status, as well as a disproportionate share of persons of color and American Indians, persons with disabilities, and elders when compared to the overall population in Minnesota.

This *2007 Health Care Quality Report for Minnesota Health Care Programs* was designed and produced by MN Community Measurement, under contract with DHS, to respond to this legislative mandate and to report on health care disparities for publicly funded populations. Its primary purpose is to present Minnesota statewide and medical group rates of performance on eight quality measures for patients insured through MHCP. Secondarily, we are reporting on differences in medical group rates of care provided to MHCP patients as compared to patients insured through Other Purchasers (i.e., commercial insurers or Medicare managed care exclusive of MHCP dual eligibles).

Data Sources and Data Collection

The data used for this report were derived from administrative claims from health plans and/or medical record review. The data reflect patients insured through MHCP who were served by a managed care delivery system from one of six health plans and two county-based purchasing organizations. The data do not include the uninsured, patients who self pay, or MHCP patients served by a fee-for-service delivery system.

These data were collected by the health plans using the Healthcare Effectiveness Data and Information Set (HEDIS) 2007 *Technical Specifications* (2006 dates of service). The data collection and reporting cycle was consistent with the annual HEDIS cycle. HEDIS is produced and maintained by the National Committee for Quality Assurance (NCQA). The following eight organizations collected data for purposes of public reporting:

- Blue Cross and Blue Shield of Minnesota
- FirstPlan of Minnesota
- HealthPartners
- Medica
- Metropolitan Health Plan
- PrimeWest Health System
(county-based purchaser)
- South Country Health Alliance
(county-based purchaser)
- UCare

To ensure data integrity, validation checks were instituted at multiple levels during the data collection and aggregation process before results were published:

- Health plan data were audited by an NCQA-certified HEDIS auditor.
- All data files were submitted to MN Community Measurement's aggregation vendor for aggregation and validation. Files were 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 validation.
- Once these checks were finalized, the data files were aggregated. 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 trending and medical groups with extremely low or high rates and/or notable changes from the previous year.
- After these checks were finalized, preliminary rates were sent to medical groups for review and comment.
- MNCM investigates any data concerns with the data aggregation statistical team to determine if the issues were related to the submitted data.
- Publication of the final written report was completed after issues were resolved and results finalized.

Measures

The measures in this report rely on NCQA's HEDIS specifications, which are aligned with clinical guidelines established by Minnesota's own Institute for Clinical Systems Improvement (ICSI). HEDIS is a national set of standardized performance measures originally designed for the managed care industry. The measures have been adapted for use by MN Community Measurement to track the performance of medical groups. The eight measures in this report were selected by DHS based on their relevance to patients enrolled in MHCP. These measures include:

"Living with Illness" measures

- **Use of Appropriate Medications for People with Asthma** – Measures the percentage of patients ages 5-56 with persistent asthma who were appropriately prescribed medication.
- **Optimal Diabetes Care** – Measures the percentage of patients with diabetes (Type 1 and Type 2) ages 18-75 who reached all five treatment goals to reduce the risk of cardiovascular diseases, including hemoglobin A1c less than 7, 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.

"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.
- **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.

"Staying Healthy" measures

- **Breast Cancer Screening** – Measures the percentage of women ages 52-69 who had a mammogram in the prior two years.
- **Cervical Cancer Screening** – Measures the percentage of women ages 21-64 who received one or more Pap tests to screen for cervical cancer in the measurement year or the two years prior. For MHCP members, the continuous enrollment requirement is one year.
- **Chlamydia Screening** – Measures the percentage of sexually active women aged 16-25 who had at least one test for chlamydia infection.
- **Childhood Immunization Status (Combo 3)** – Measures the percentage of children two years of age who had four DTaP/DT, three IPV, one MMR, three 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.

Methodology

Eligible population specifications

The eligible populations for the measures in this report were identified by each health plan utilizing their respective administrative databases. NCQA's 2007 HEDIS Technical Specifications provided the standard definitions for the eligible population, which included patients who satisfied all specified criteria, including any age, continuous enrollment, benefit, and event or anchor date enrollment requirements.

HEDIS measures were calculated using either an administrative method or a hybrid method. The measures that are calculated using the administrative methodology are derived from administrative data only, while measures calculated using the hybrid method are derived from a combination of administrative data and medical record review data. For administrative measures, the entire eligible population is the denominator. For hybrid measures, the eligible population serves as the sampling frame from which to draw the denominator.

The following measures used the administrative method:

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

The following measures used the hybrid method:

- Childhood Immunization Status (Combo 3)
- Optimal Diabetes Care

Patient attribution to medical groups

Health plans assigned enrollees to a medical group using a frequency-based attribution logic and a standard medical group definition. Administrative billing codes identified the frequency of patient visits to medical groups during the measurement year. Patients were assigned to the medical group that they visited most frequently. Patients who visited two or more medical groups with the same frequency were attributed to the medical group visited most recently. MNMCM, in collaboration with the health plans and medical groups, established a standard definition of medical groups using a common identifier (Tax Identification Number). This common identifier, updated annually, is necessary for data aggregation across multiple health plans.

Sampling for hybrid measures

As noted previously, the hybrid methodology required health plans to identify the eligible population that met measurement specifications using their 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 necessitates a random sample of the eligible population. NCQA sampling procedures were used. Medical record review was conducted for all enrollees drawn for the sample.

In addition to the HEDIS sample drawn by the health plans, NCQA, under contract with MNMCM, identified a supplemental sample of MHCP enrollees to increase the number of MHCP enrollees in the denominator for the hybrid measures.

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Methodology

This allowed a larger number of medical groups to be reported for the hybrid measures based on MNCM's minimum observation policy. For each hybrid measure, a minimum threshold of 60 MHCP enrollees per medical group was established for purposes of public reporting. MNCM has a minimum threshold of 30 MHCP enrollees per medical group for the administrative measures because these are based on the full population. Enrollees previously included in a health plan's HEDIS sample were not eligible for the supplemental MHCP sample.

Numerator specifications

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

Calculating rates

Rates were expressed as percentages. They were calculated as 100 times the number who met the measurement specifications 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.

Weighting

Weights were calculated for each sampling stratum (i.e. health plan/health plan product/ medical group combination). A weight was equal to the total eligible population for that stratum divided by the total sample size (i.e. HEDIS sample plus MHCP supplemental sample) for that stratum. In calculating rates for a population – a 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 measurement specifications.

Rates

Average rates were calculated at both a statewide level and at a medical group level. Statewide averages include those patients attributed to a medical group AND those who could not be attributed to a medical group (i.e., all patients regardless of medical group affiliation). Medical group averages include ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it included patients who accessed care more frequently.

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Methodology

Limitations

The medical groups identified in this report do not fully represent all medical groups that serve the MHCP population. This is because MNCM has established minimum thresholds for public reporting. Only medical groups that met these minimum reporting thresholds were included.* These tend to be larger medical groups and/or those with high concentrations of MHCP patients. For the same reason, the medical groups that are included may not be reported for all measures.

The MHCP patients who were eligible for each measure were subject to continuous enrollment criteria. The requirement of continuous enrollment reduced the number of MHCP patients included in the rates. MHCP patients lose eligibility from MHCP more frequently than patients insured through Other Purchasers. Therefore, the rates in this report may not represent the experience of all MHCP patients served by managed care.

* The Minnesota Department of Human Services has an addendum to this report that includes charts for the two hybrid measures – Optimal Diabetes Care and Childhood Immunization Status (Combo 3) – that include medical groups with a minimum threshold of 30 patients in the sample. Contact Vicki Kunerth, at vicki.kunerth@state.mn.us for more information.

High Performing Medical Groups

This section presents the medical group rates. It begins with the identification of high performing medical groups followed by a discussion of performance variation by medical group, results by measure, and a comparison of results between patients insured through MHCP and those insured through Other Purchasers.

For each measure, individual MHCP medical group rates and a MHCP medical group average rate were calculated. Medical groups that achieved high performance were identified by comparing the individual medical group rate to the medical group average. Medical groups that had rates and 95 percent confidence intervals that were fully above the medical group average were high performers.

“Living with Illness” measures

Use of Appropriate Medications for People with Asthma

Medical group results showed that an average of 88 percent of MHCP patients ages 5-56, with persistent asthma, were appropriately prescribed medication. Avera Health/Avera with persistent asthma, were appropriately prescribed medication. Avera Health/Avera Tri-state set the MHCP medical group benchmark of 100 percent. Three of 32 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- Avera Health/Avera Tri-State
- Family Medical Center – Little Falls and Pierz
- Children’s Physician Network

Optimal Diabetes Care

Medical group results showed that an average of seven percent of MHCP patients with diabetes met all five required components included in

this measure. Fairview Health Services set the MHCP medical group benchmark of 18 percent of MHCP diabetes patients in full compliance with all five diabetes care components. Four of 27 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- Fairview Health Services
- Columbia Park Medical Group
- Allina
- HealthPartners Medical Group

“Getting Better” measures

Treatment for Children with Upper Respiratory Infection

Medical group results showed that an average of 84 percent of MHCP children ages three months to 18 years with a diagnosis of URI were appropriately managed without an antibiotic. St. Paul Family Medical Center set the MHCP medical group benchmark of 100 percent. Fourteen of 70 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- St. Paul Family Medical Center
- North Clinic
- Express Healthcare
- University of Minnesota Physicians
- North Memorial Clinic
- Neighborhood Health Care Network
- HealthPartners Medical Group
- Hennepin County
- Mille Lacs Health System
- Mayo Clinic
- Park Nicollet Health Services
- Children’s Physician Network
- Fairview Health Services
- Allina

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High Performing Medical Groups

Testing for Children with Pharyngitis

Medical group results showed that an average of 73 percent of MHCP children ages 2-18 years who were diagnosed with pharyngitis were appropriately dispensed an antibiotic and received a strep test. MinuteClinic set the MHCP medical group benchmark of 100 percent. Twenty seven of 70 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- MinuteClinic
- Express Healthcare
- Family Practice Medical Center of Willmar
- University of Minnesota Physicians
- HealthPartners Medical Group
- United Family Practice Health Center
- Multicare Associates of the Twin Cities
- Stillwater Medical Group
- WestHealth Urgent Care
- HealthPartners Central Minnesota Clinics
- Columbia Park Medical Group
- Northwest Family Physicians
- Quello Clinic
- Aspen Medical Group
- CentraCare Health System
- Buffalo Clinic
- Apple Valley Medical Center
- Park Nicollet Health Services
- HealthEast
- Northstar Physicians
- Olmsted Medical Center
- Children's Physician Network
- Fairview Health Services
- Neighborhood Health Care Network
- St. Cloud Medical Group
- Mayo Clinic
- Affiliated Community Medical Centers

"Staying Healthy" measures

Breast Cancer Screening

Medical group results showed that an average of 61 percent of MHCP women ages 52-69 had a mammogram. Riverwood Aitken Clinic established the MHCP medical group benchmark of 86 percent. Sixteen of 48 medical groups had rates and confidence intervals that were fully above the medical group average for patients insured through MHCP:

- Riverwood Aitkin Clinic
- Central Lakes Medical Clinic
- Fergus Falls Medical Group
- Mankato Clinic
- Hutchinson Medical Center
- Mayo Clinic
- North Clinic
- MeritCare
- HealthPartners Medical Group
- Aspen Medical Group
- Park Nicollet Health Services
- Olmsted Medical Center
- Hennepin County
- CentraCare Health System
- Affiliated Community Medical Centers
- Mayo Health System

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High Performing Medical Groups

Cervical Cancer Screening

Medical group results showed that an average of 75 percent of MHCP women ages 21-64 had a Pap test in the last three years. Obstetrics & Gynecology Specialists set the MHCP medical group benchmark of 98 percent. Twenty two of 81 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- Obstetrics & Gynecology Specialists
- John A. Haugen Associates
- Metropolitan OB & GYN
- Southdale OB/GYN Consultants
- Women's Health Consultants
- Oakdale Obstetrics and Gynecology
- Northland OB-GYN Associates
- Obstetrics, Gynecology & Infertility
- Winona Clinic
- Bloomington Lake Clinic
- Quello Clinic
- Central Lakes Medical Clinic
- SuperiorHealth Medical Group
- St. Cloud Medical Group
- Aspen Medical Group
- Park Nicollet Health Services
- MeritCare
- Olmsted Medical Center
- Mankato Clinic
- CentraCare Health System
- Columbia Park Medical Group
- HealthPartners Medical Group

Chlamydia Screening in Women

Medical group results showed that an average of 49 percent of MHCP sexually active women ages 16-25 had a chlamydia test. United Family Practice Health Center established the MHCP medical group benchmark of 74 percent. Eight of 56 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- United Family Practice Health Center
- Camden Physicians
- HealthPartners Medical Group
- Neighborhood Health Care Network
- Hutchinson Medical Center
- Aspen Medical Group
- Hennepin County
- Park Nicollet Health Services

Childhood Immunization Status

Medical group results showed that an average of 70 percent of MHCP children under age two were up-to-date with all recommended immunizations. Mankato Clinic established the MHCP medical group benchmark of 87 percent. Nine of 27 medical groups had rates and confidence intervals that were fully above the medical group average for patients enrolled in MHCP:

- Mankato Clinic
- HealthPartners Medical Group
- Park Nicollet Health Services
- Brainerd Medical Center
- Affiliated Community Medical Centers
- Children's Physician Network
- CentraCare Health System
- Aspen Medical Group
- Mayo Clinic

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High Performing Medical Groups

Six medical groups achieved above-average rates more frequently than other medical groups for patients enrolled in MHCP (Table 1). Each of these medical groups achieved these above-average rates on at least four of the eight measures, although there were several other

medical groups that achieved high performance rates on a smaller number of measures. These high performing medical groups are presented in descending order by the frequency of measures with an above-average rate.

Table 1: High Performing Medical Groups for MHCP patients

MEDICAL GROUP	Asthma	Optimal Diabetes Care	URI	Pharyngitis	Breast Cancer Screening	Cervical Cancer Screening	Chlamydia Screening	Childhood Immunization Status	FREQUENCY
HealthPartners Medical Group		■	■	■	■	■	■	■	7 of 8
Children's Physician Network	■	N/A	■	■	N/A	N/A		■	4 of 5
Park Nicollet			■	■	■	■	■	■	6 of 8
Aspen Medical Group				■	■	■	■	■	5 of 8
CentraCare Health System				■	■	■		■	4 of 8
Mayo Clinic			■	■	■			■	4 of 8

KEY: ■ = Medical group had confidence interval fully above the medical group average for patients enrolled in MHCP.

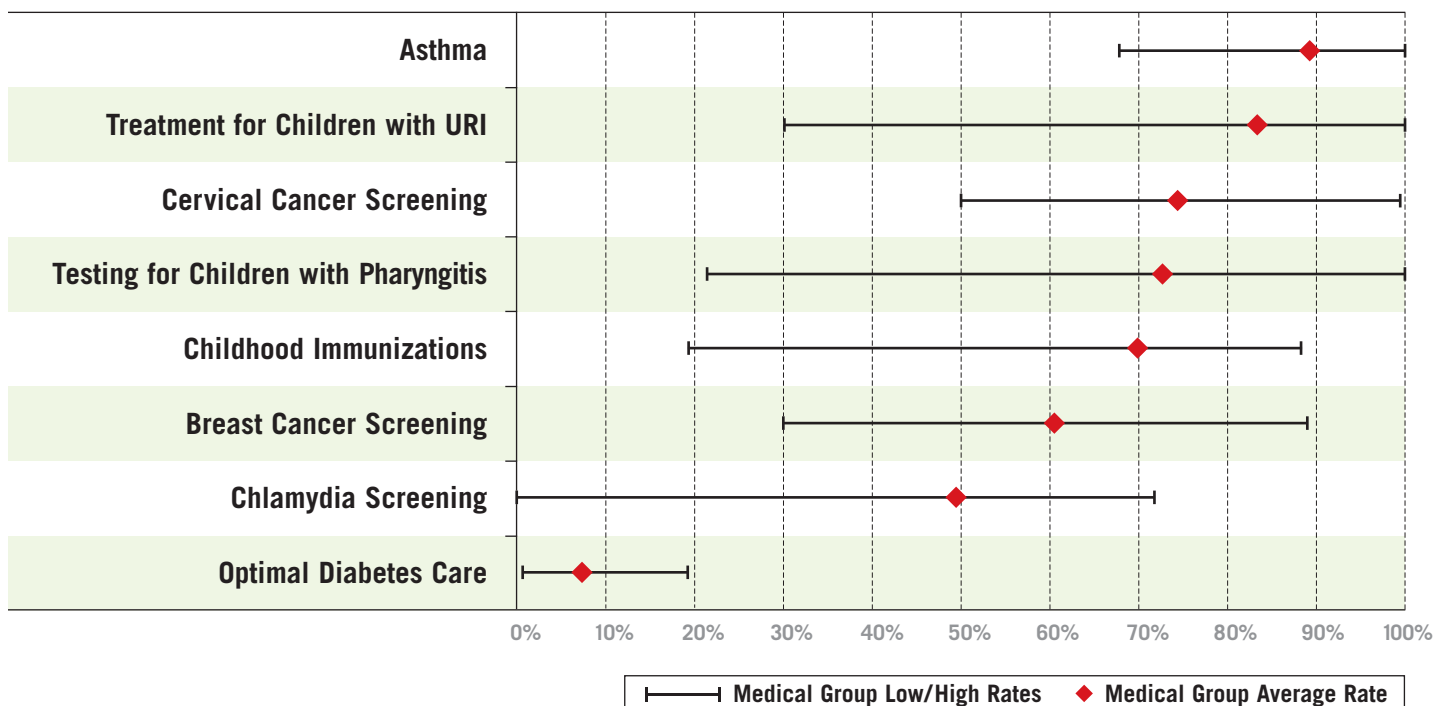
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Medical Group Performance Variation

For all measures, we observed considerable variation across medical groups. For three measures, some medical groups achieved performance rates of 100 percent. For one measure, one medical group had a rate of zero.

This medical group performance variation is commonly seen in MN Community Measurement reporting and is not unique to MHCP.

Medical Group Performance Variation - All Measures



MHCP Statewide and Medical Group Results by Measure

“Living with Illness” measures

Asthma

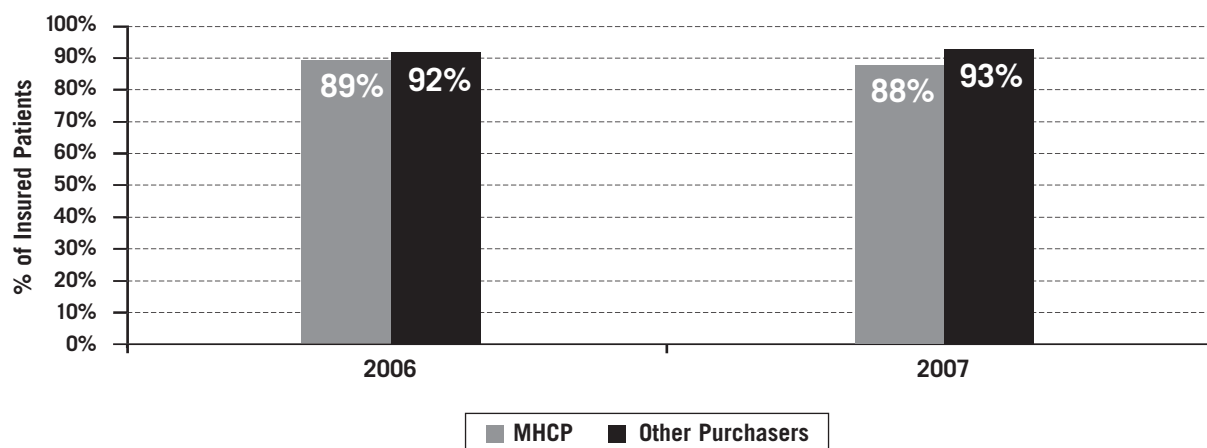
Use of Appropriate Medications for People with Asthma (Ages 5-56)

This measures the percentage of patients ages 5-56 with persistent asthma who were appropriately prescribed medication.

The data for this measure are collected from health plan claims.

	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average* All Ages (5-56)	88.1%	87.0% - 89.0%	3,538	4,017
Other Purchasers Statewide Average* All Ages (5-56)	92.6%	92.04% - 93.04%	9,912	10,705

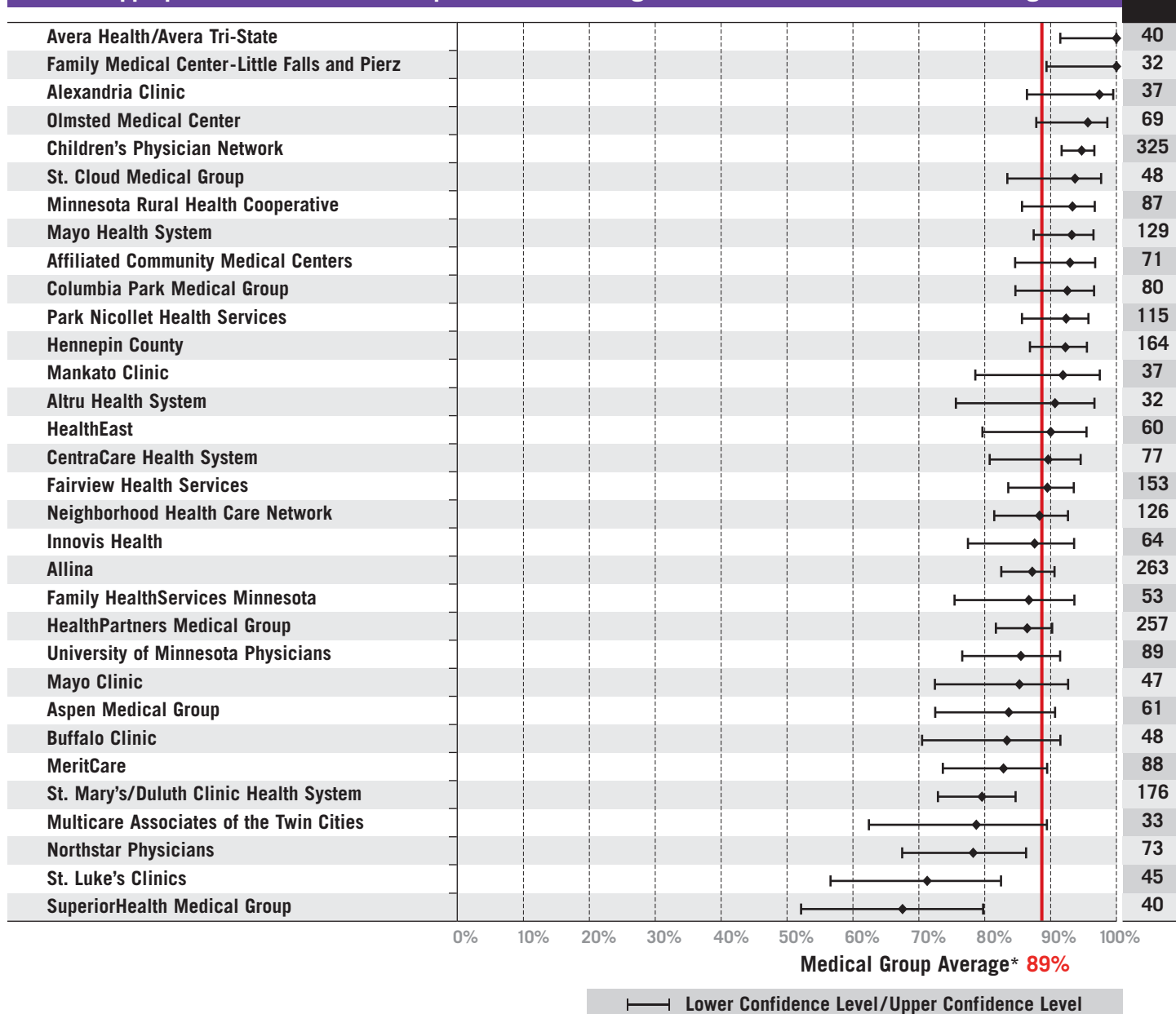
Use of Appropriate Medications for People with Asthma – Ages 5 - 56



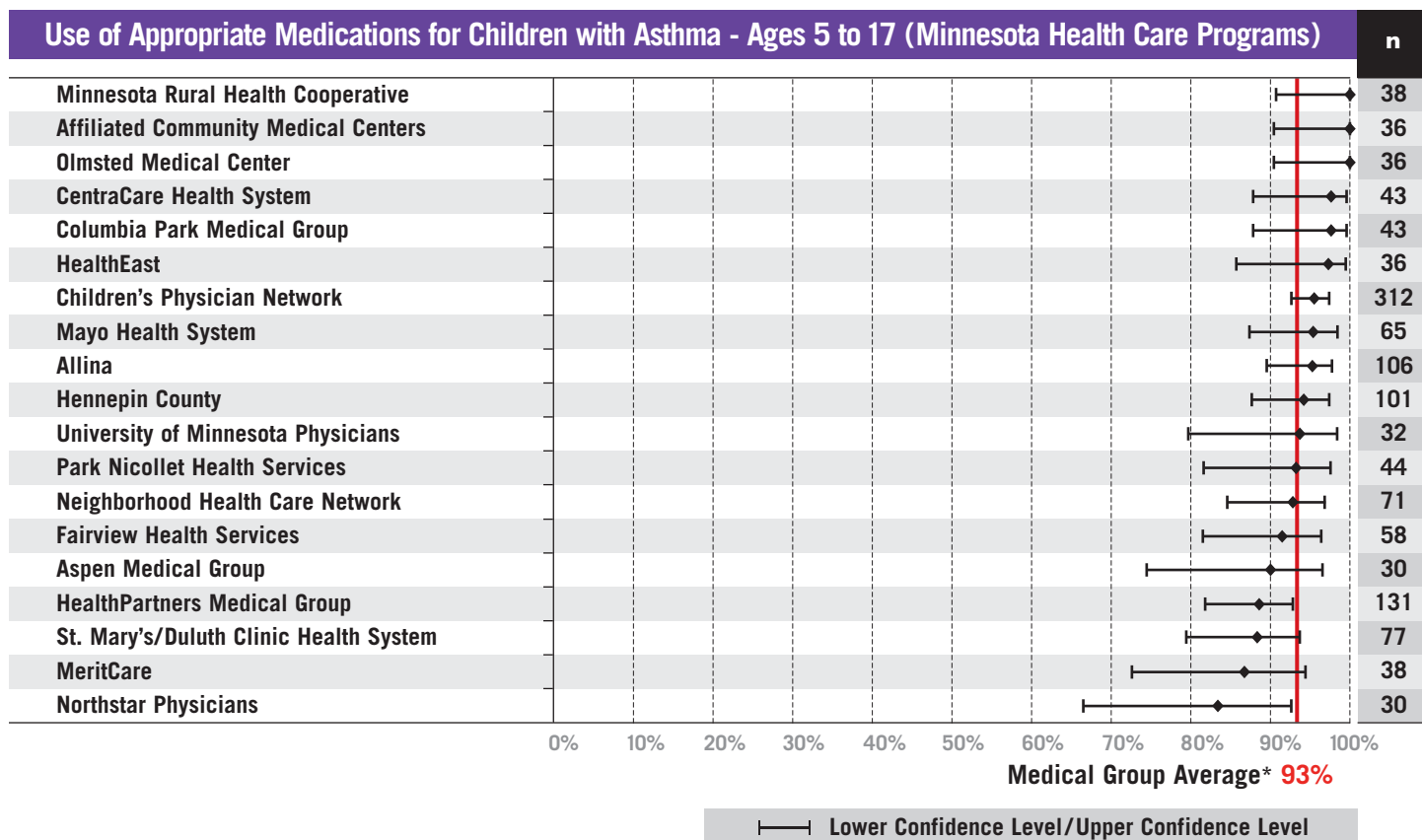
*Statewide averages (above) include those patients attributed to a medical group AND those who could not be attributed to a medical group.

Note: 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.

Use of Appropriate Medications for People with Asthma - Ages 5 to 56 (Minnesota Health Care Programs)

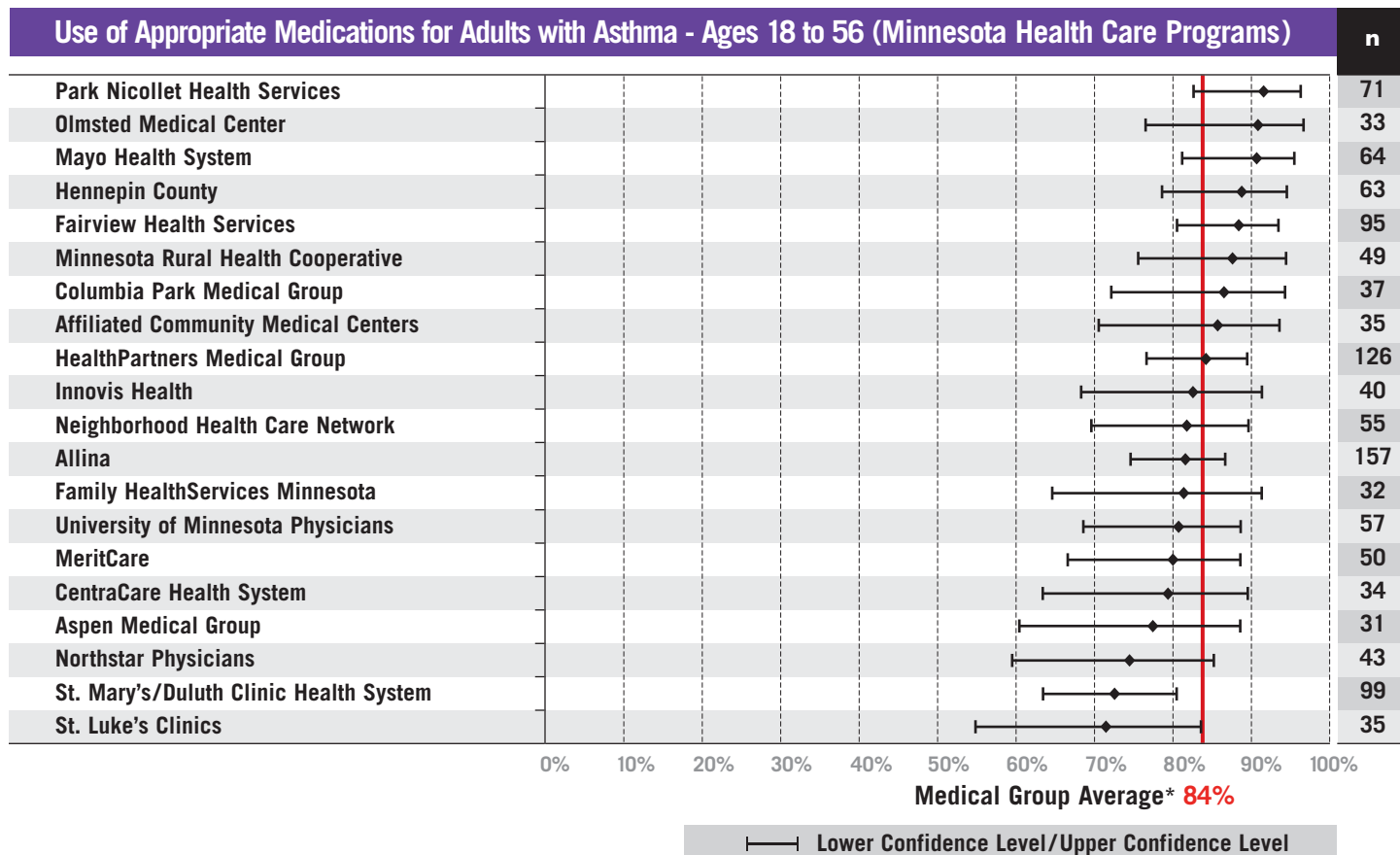


*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.



*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

Use of Appropriate Medications for Adults with Asthma - Ages 18 to 56 (Minnesota Health Care Programs)



*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Living with Illness” measures

Optimal Diabetes Care

Optimal Diabetes Care

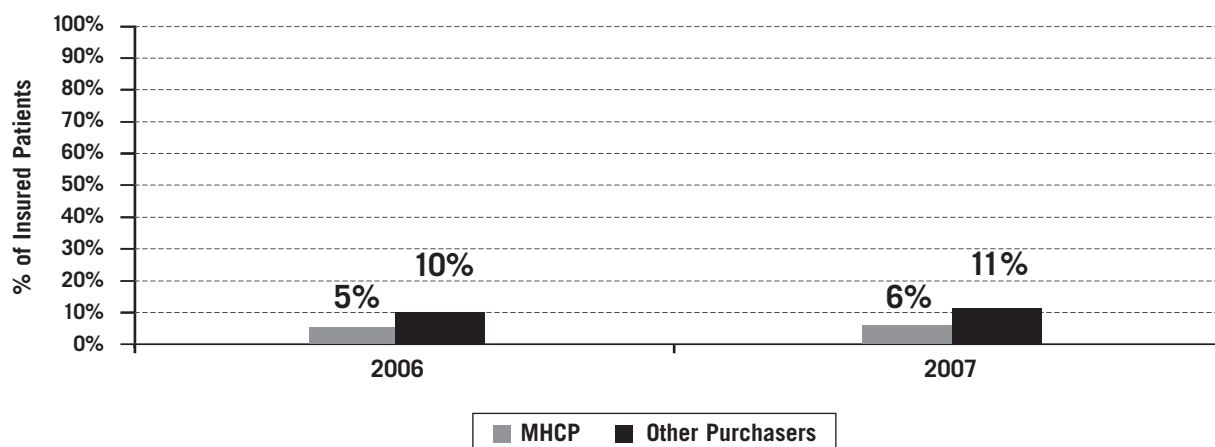
This measures the percentage of patients with diabetes (Type I and Type II) ages 18-75 who reached all of the following five treatment goals to reduce the risk of cardiovascular diseases:

Data collected for this measure are from health plan claims and medical record review.

- Hemoglobin A1c (A1c) less than 7
- Blood pressure less than 130/80 mmHg
- LDL-C less than 100 mg/dl
- Daily aspirin use, ages 41-75
- Documented tobacco-free status

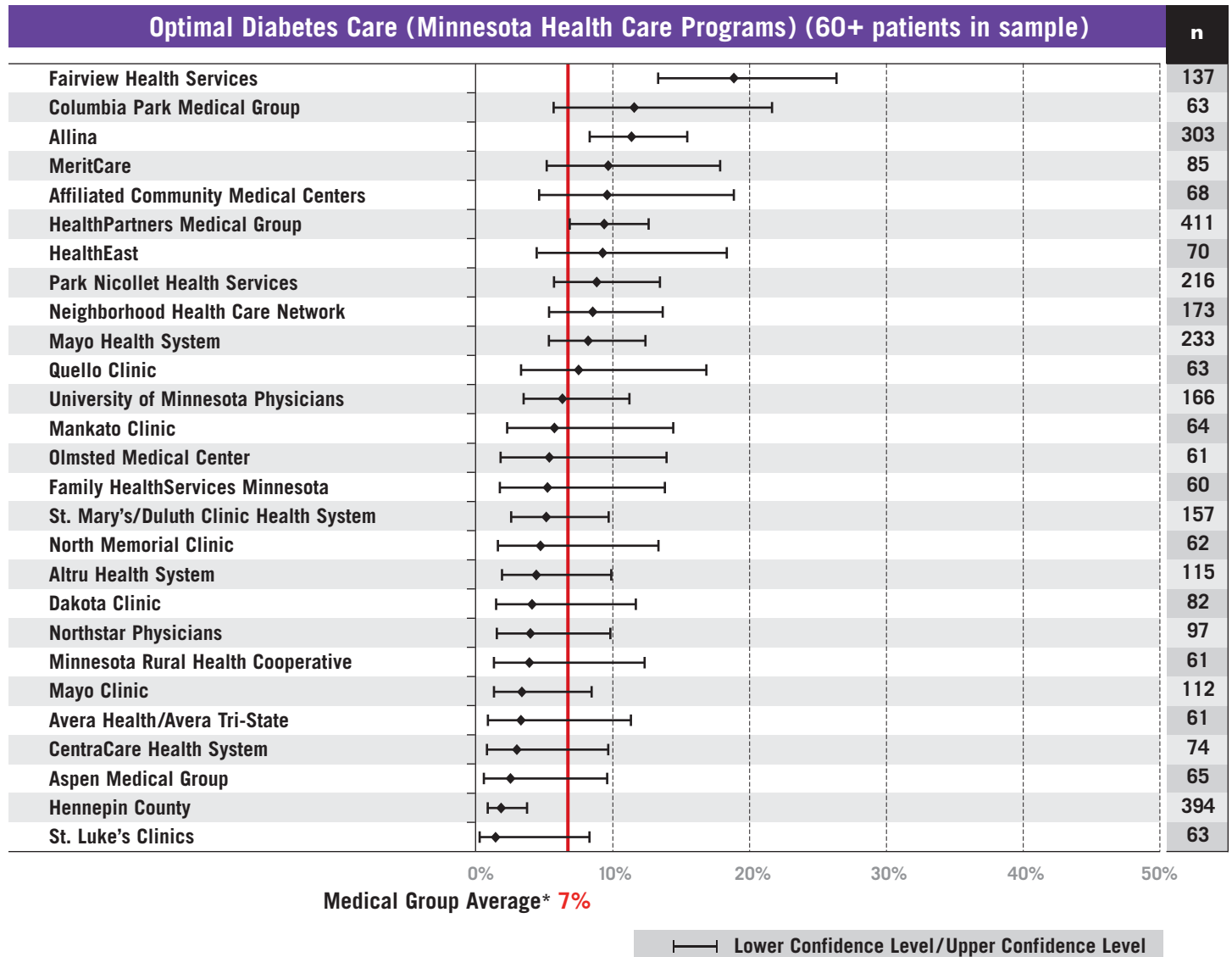
	Rate	95% CI	Numerator (patients who met treatment goals)	Denominator (Patients sampled)	Total Eligible
MHCP Statewide Average* (Weighted)	6.5%	5.8% - 7.2%	320	5,183	9,438
Other Purchasers Statewide Average* (Weighted)	11.4%	10.64% - 12.26%	673	5,908	40,609

Optimal Diabetes Care



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

Note: Caution is needed when comparing 2007 rates to previous years. In 2007, the measurement specifications changed for some components of the Optimal Diabetes Care measure.



*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Getting Better” measures

Appropriate Treatment for Children with Upper Respiratory Infection

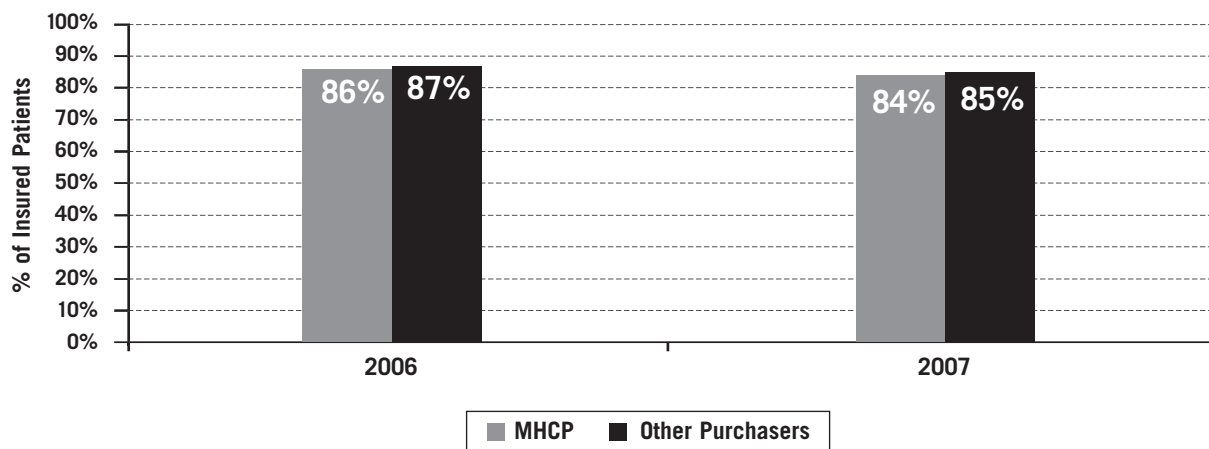
Appropriate Treatment for Children with Upper Respiratory Infection

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.

The data collected for this measure are from health plan claims. Note: A higher rate indicates appropriate treatment of children with URI (i.e., the proportion for whom antibiotics were not prescribed).

	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average*	83.8%	83.3% - 84.2%	20,774	24,793
Other Purchasers Statewide Average*	85.0%	84.52% - 85.50%	17,523	20,616

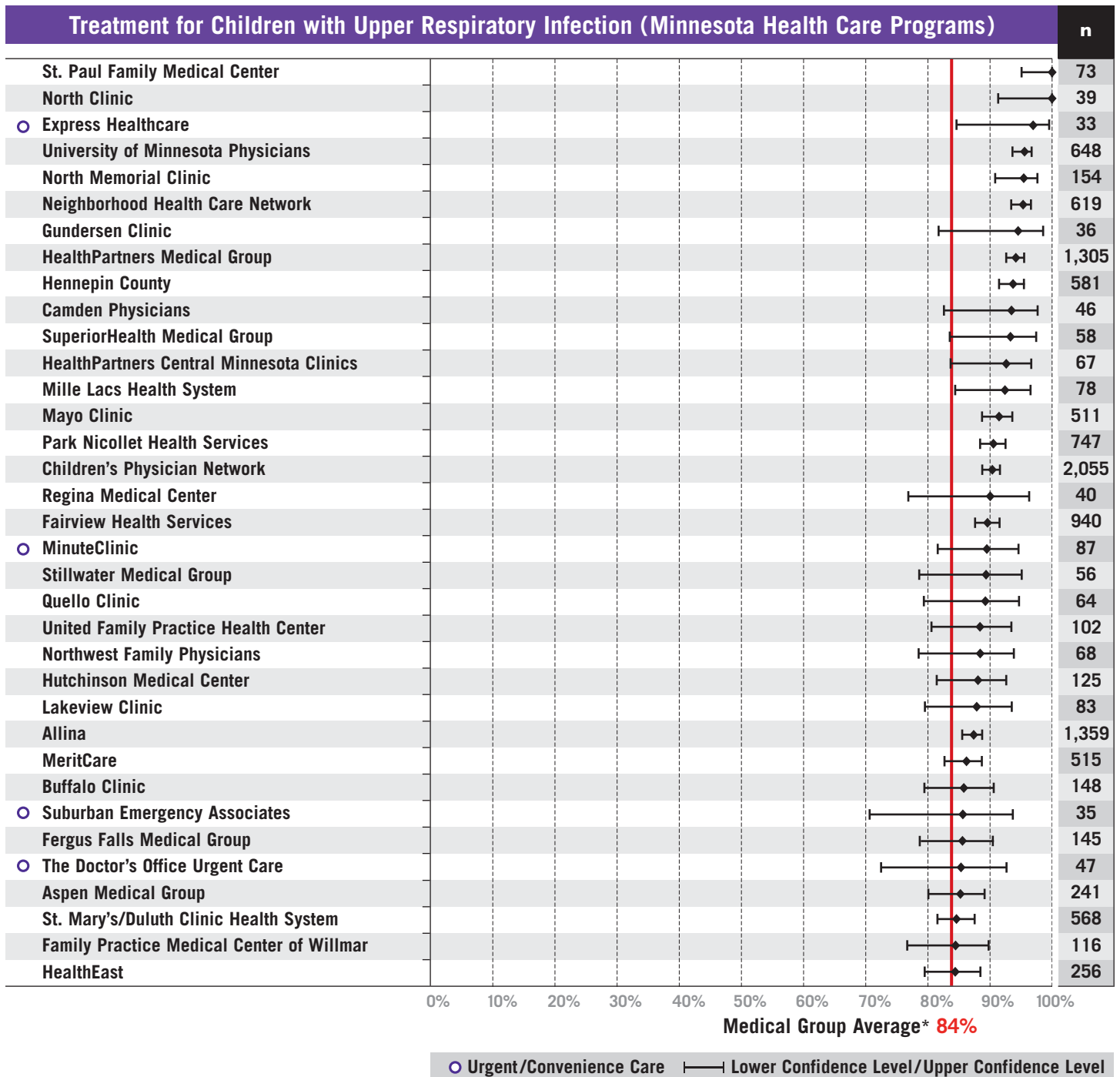
Appropriate Treatment for Children with Upper Respiratory Infection



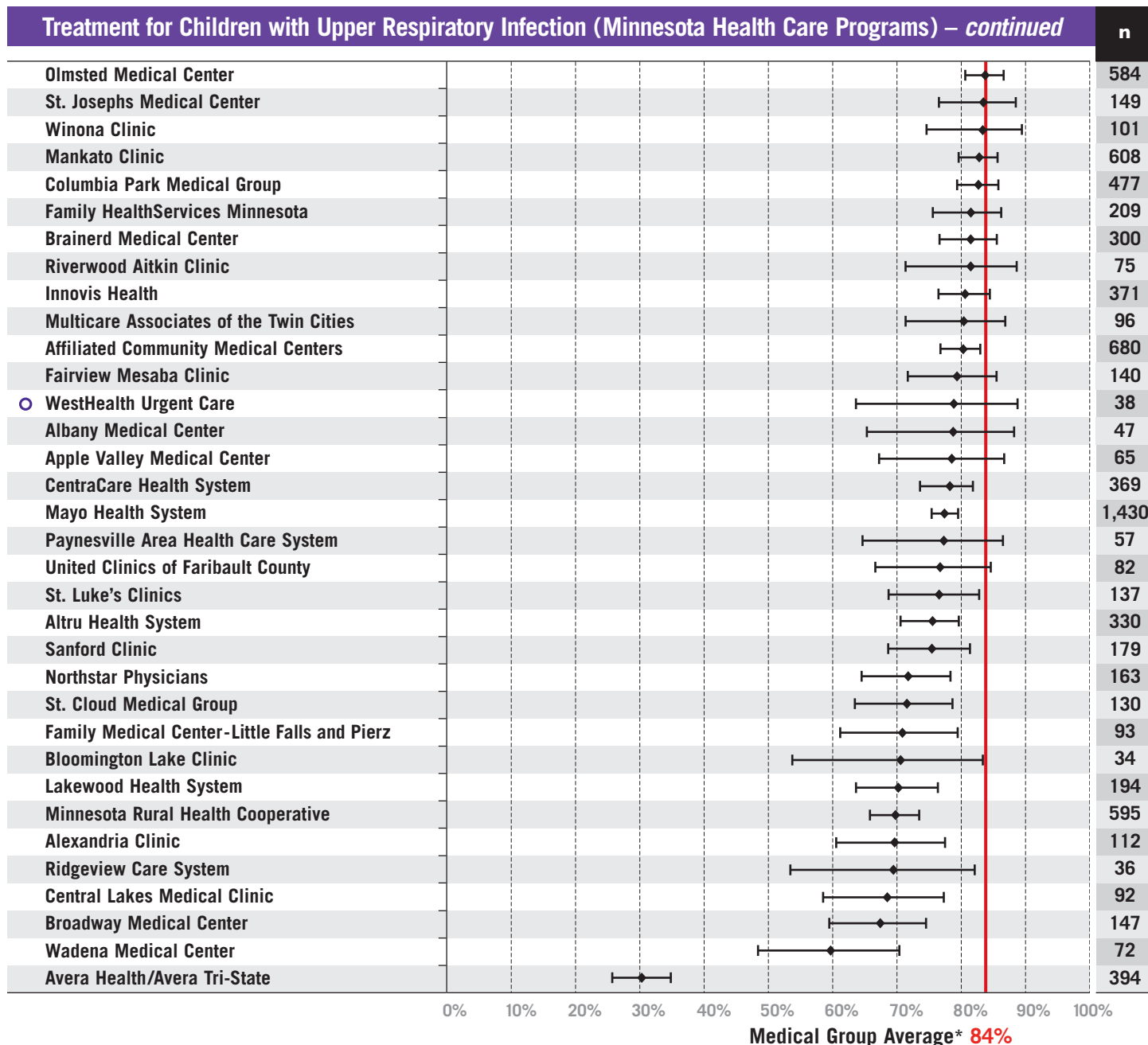
*Statewide averages (above) include those patients attributed to a medical group AND those who could not be attributed to a medical group.

Note: 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.

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*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

Treatment for Children with Upper Respiratory Infection (Minnesota Health Care Programs) – *continued*

*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Getting Better” measures

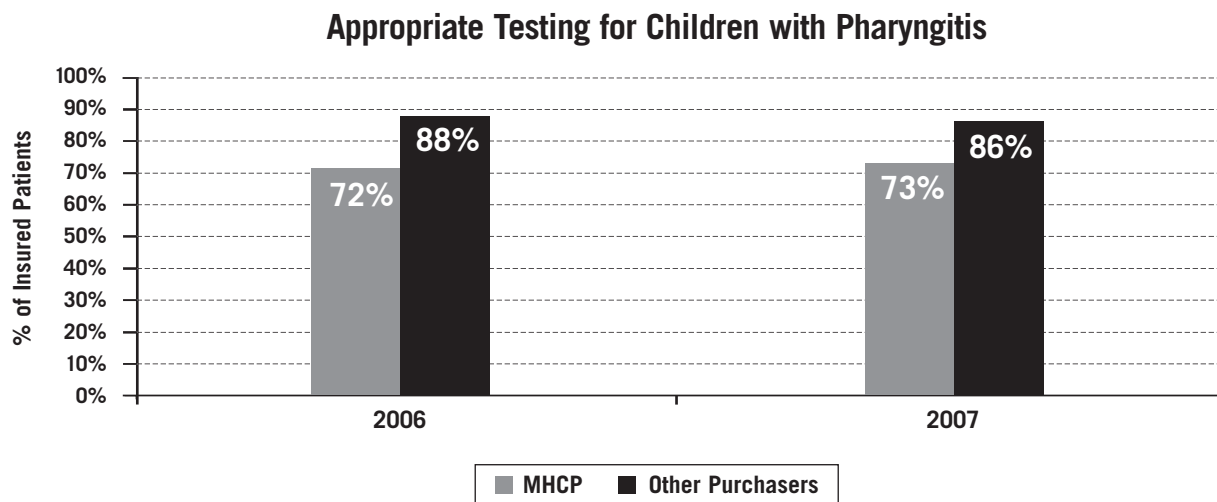
Appropriate Testing for Children with Pharyngitis

Appropriate Testing for Children with Pharyngitis

This measures the percentage of children ages 2-18 with pharyngitis who were given an antibiotic and a group A streptococcus (strep) test.

The data collected for this measure are from health plan claims. Note: A higher rate represents better performance (i.e., appropriate testing).

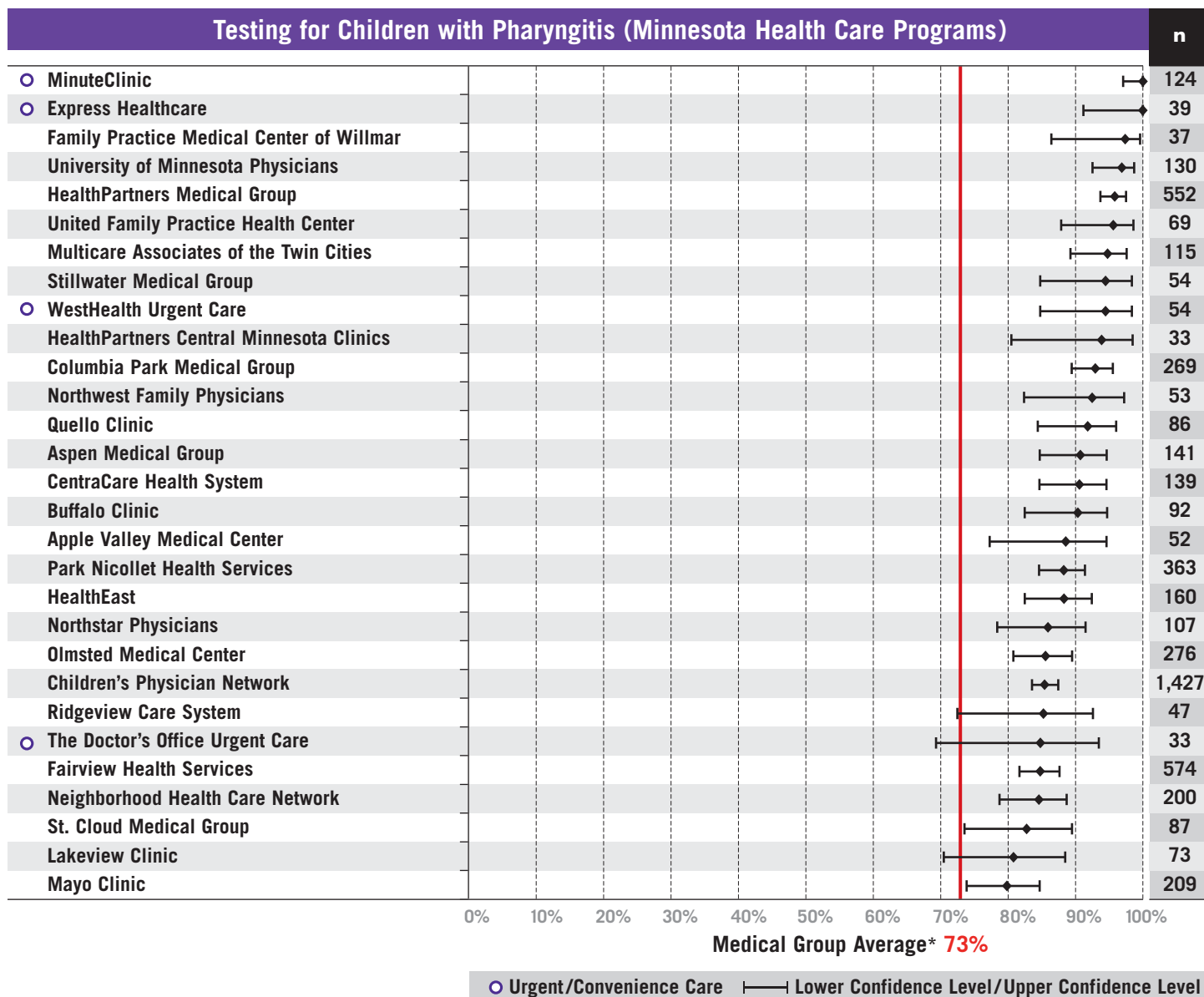
	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average*	73.0%	72.2% - 73.7%	9,849	13,501
Other Purchasers Statewide Average*	85.9%	85.40% - 86.37%	17,017	19,811



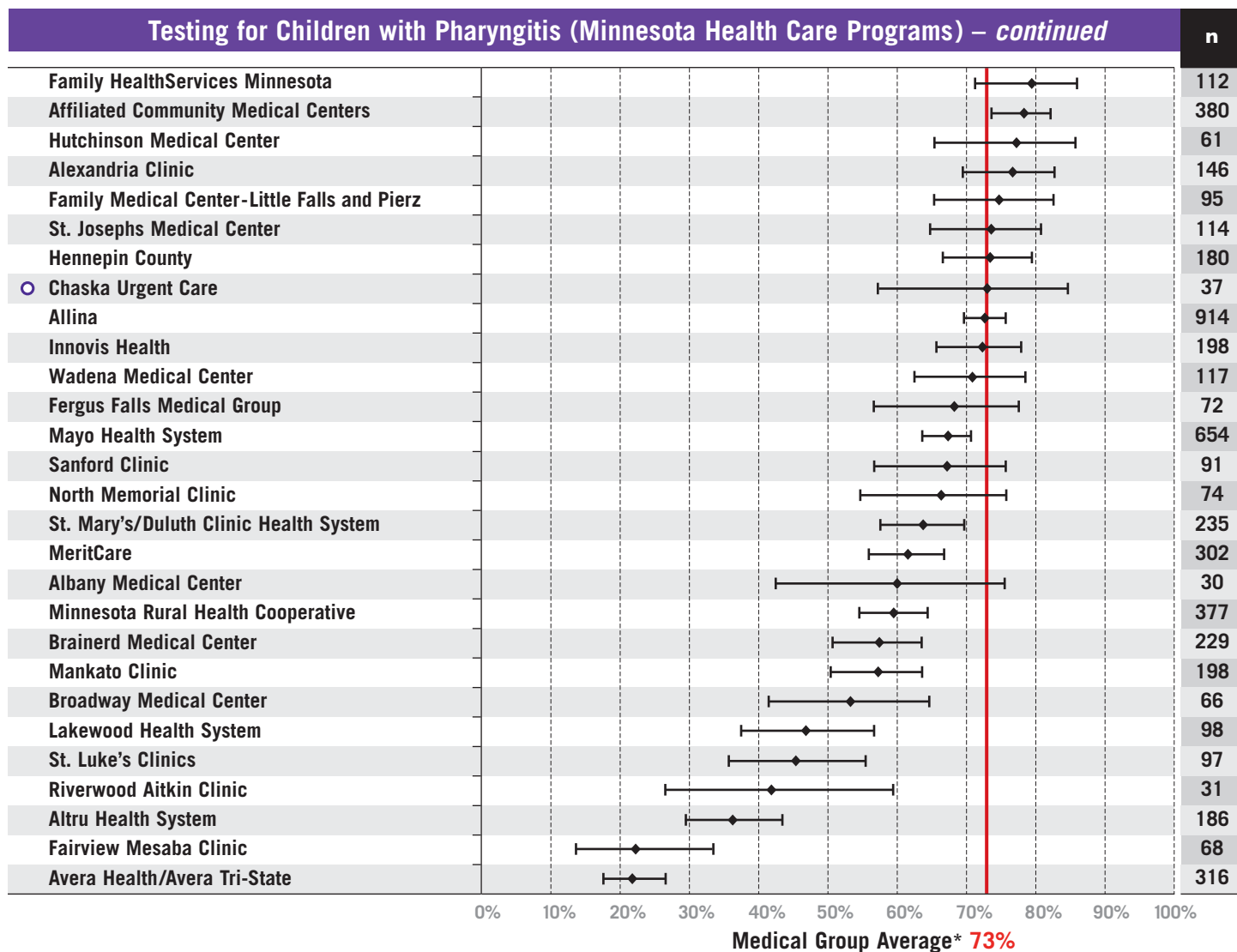
*Statewide averages (above) include those patients attributed to a medical group AND those who could not be attributed to a medical group.

Note: 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.

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*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

Testing for Children with Pharyngitis (Minnesota Health Care Programs) – *continued*

*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Staying Healthy” measures

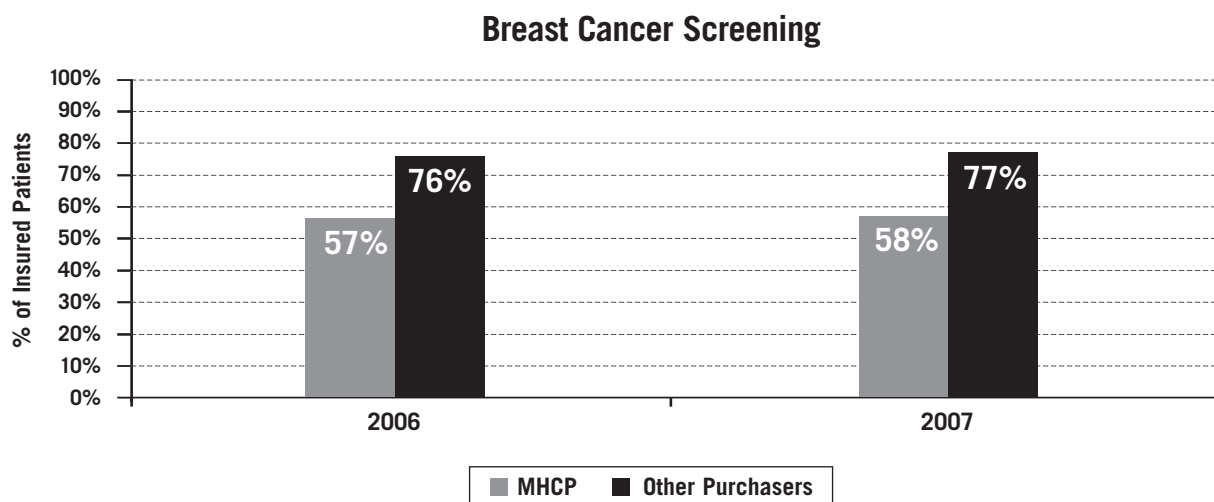
Breast Cancer Screening

Breast Cancer Screening

This measures the percentage of women ages 52 - 69 who received a mammogram in the prior two years.

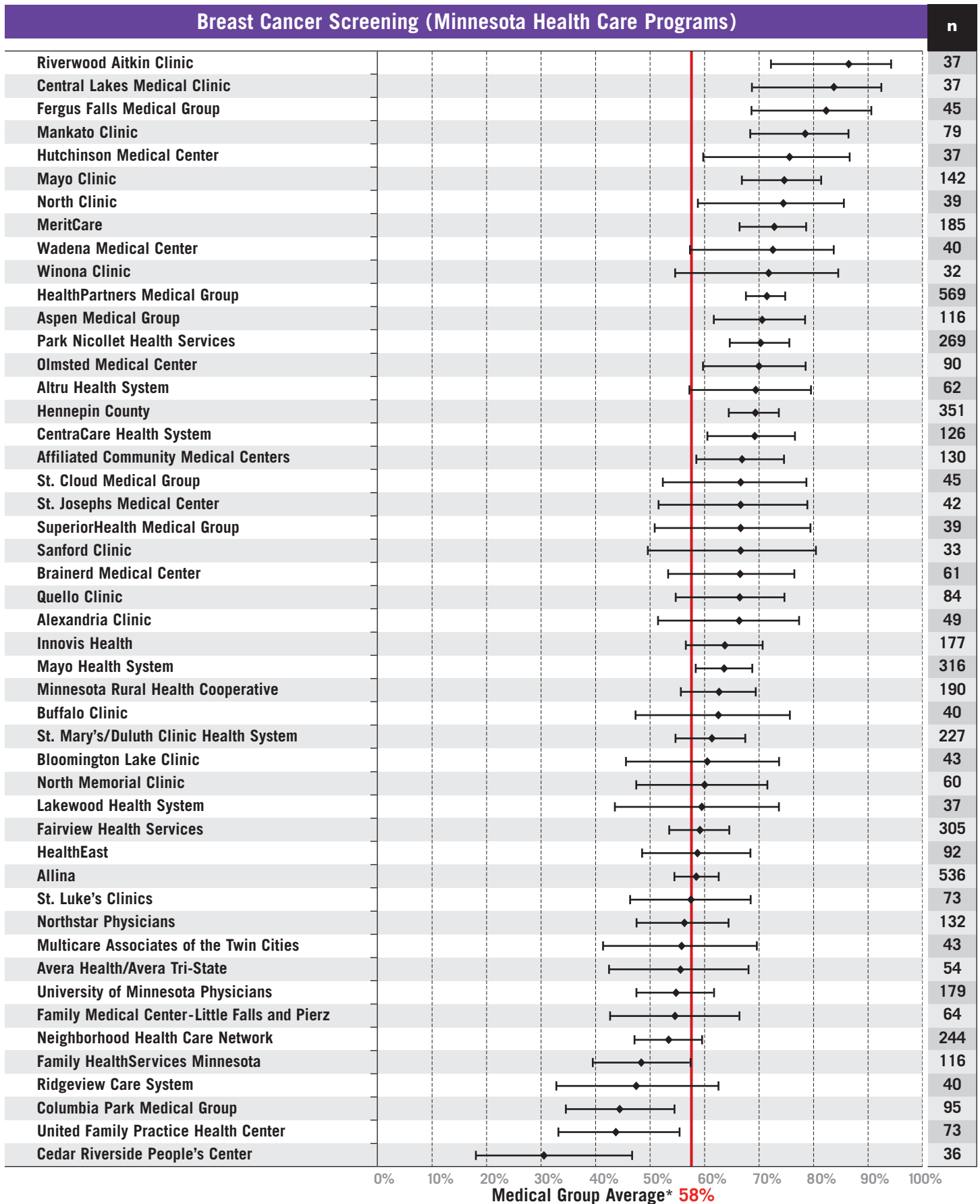
The data for this measure are collected from health plan claims.

	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average*	57.6%	56.5% - 58.6%	9,057	16,240
Other Purchasers Statewide Average*	77.1%	76.80% - 77.35%	70,474	91,406



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

Note: 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.



*Medical group averages include ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups.

The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

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“Staying Healthy” measures

Cervical Cancer Screening

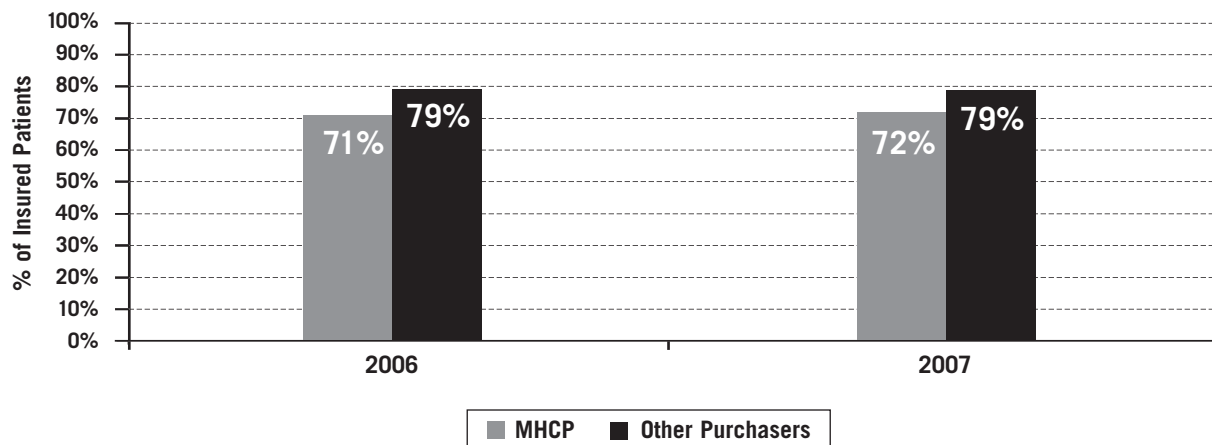
Cervical Cancer Screening

This measures the percentage of women ages 21-64 who received one or more Pap tests to screen for cervical cancer in the measurement year or the two years prior. For MHCP members, the continuous enrollment requirement is one year.

The data for this measure are collected from health plan claims.

	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average*	71.9%	71.5% - 72.3%	34,151	47,482
Other Purchasers Statewide Average*	79.0%	78.77% - 79.13%	154,503	195,574

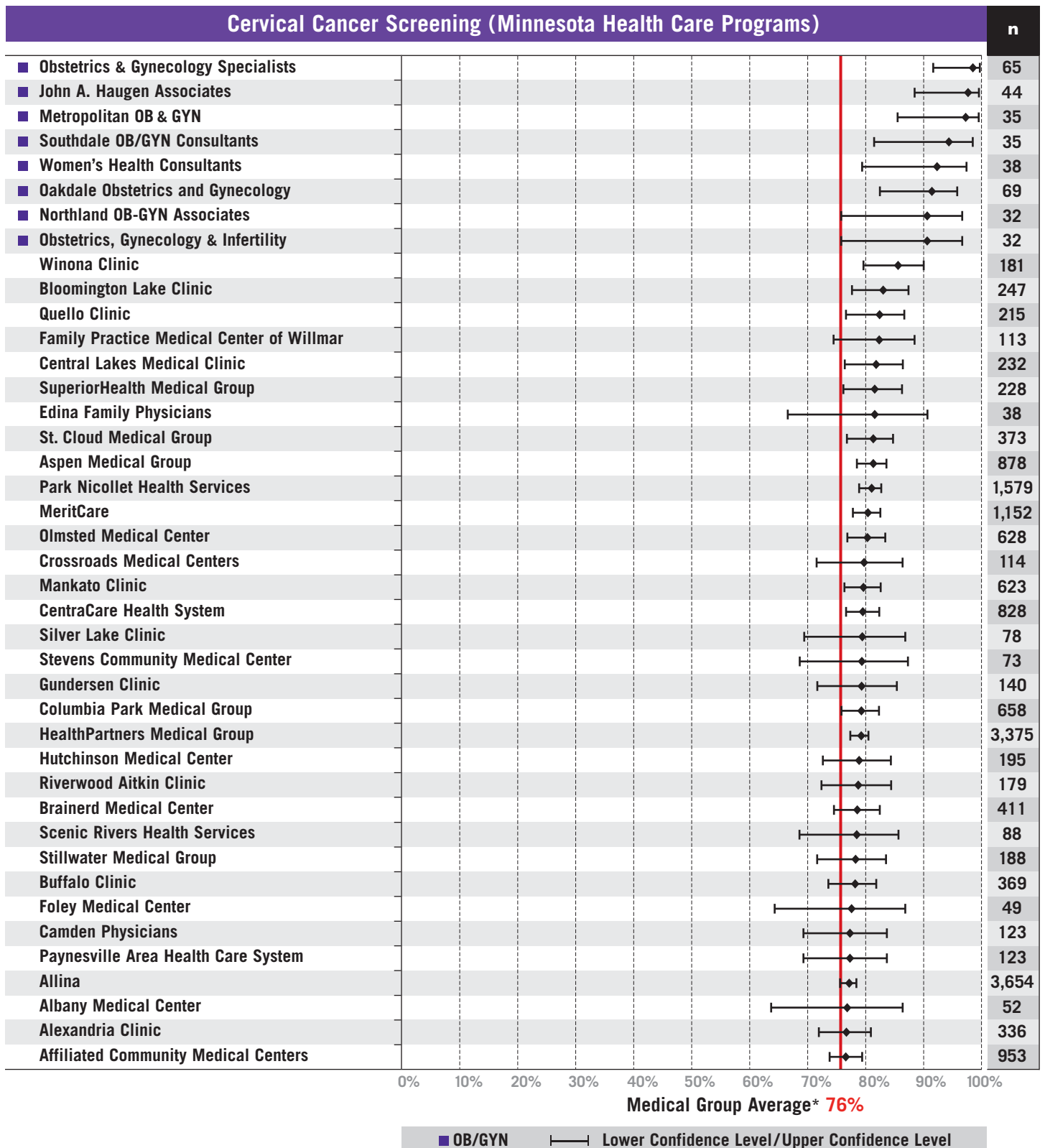
Cervical Cancer Screening



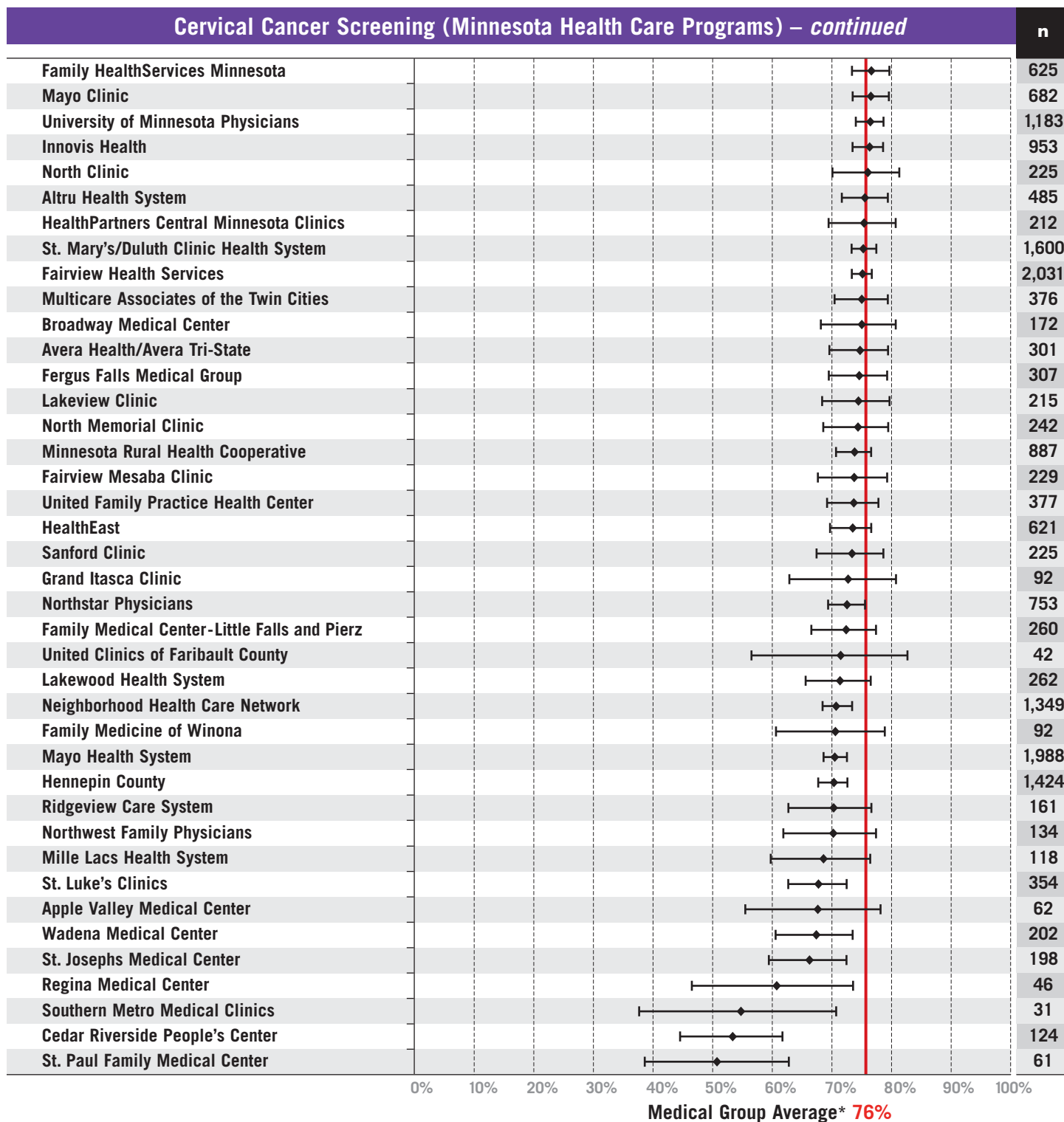
*Statewide averages (above) include those patients attributed to a medical group AND those who could not be attributed to a medical group.

Note: Caution is needed when comparing MHCP with Other Purchasers because the continuous enrollment criteria are different.

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*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

Cervical Cancer Screening (Minnesota Health Care Programs) – *continued*

*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Staying Healthy” measures

Chlamydia Screening in Women

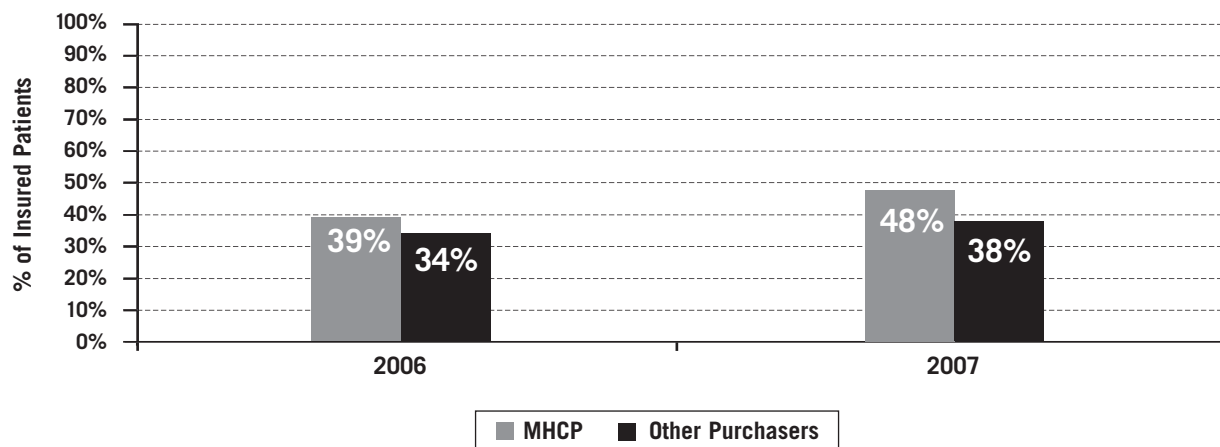
Chlamydia Screening in Women

This measures the percentage of sexually active women aged 16-25 who had at least one test for Chlamydia during the measurement year.

The data for this measure are collected from health plan claims.

	Rate	95% CI	Numerator	Denominator
MHCP Statewide Average*	47.9%	47.0% - 48.7%	6,578	13,755
Other Purchasers Statewide Average*	37.7%	37.13% - 38.20%	11,856	31,450

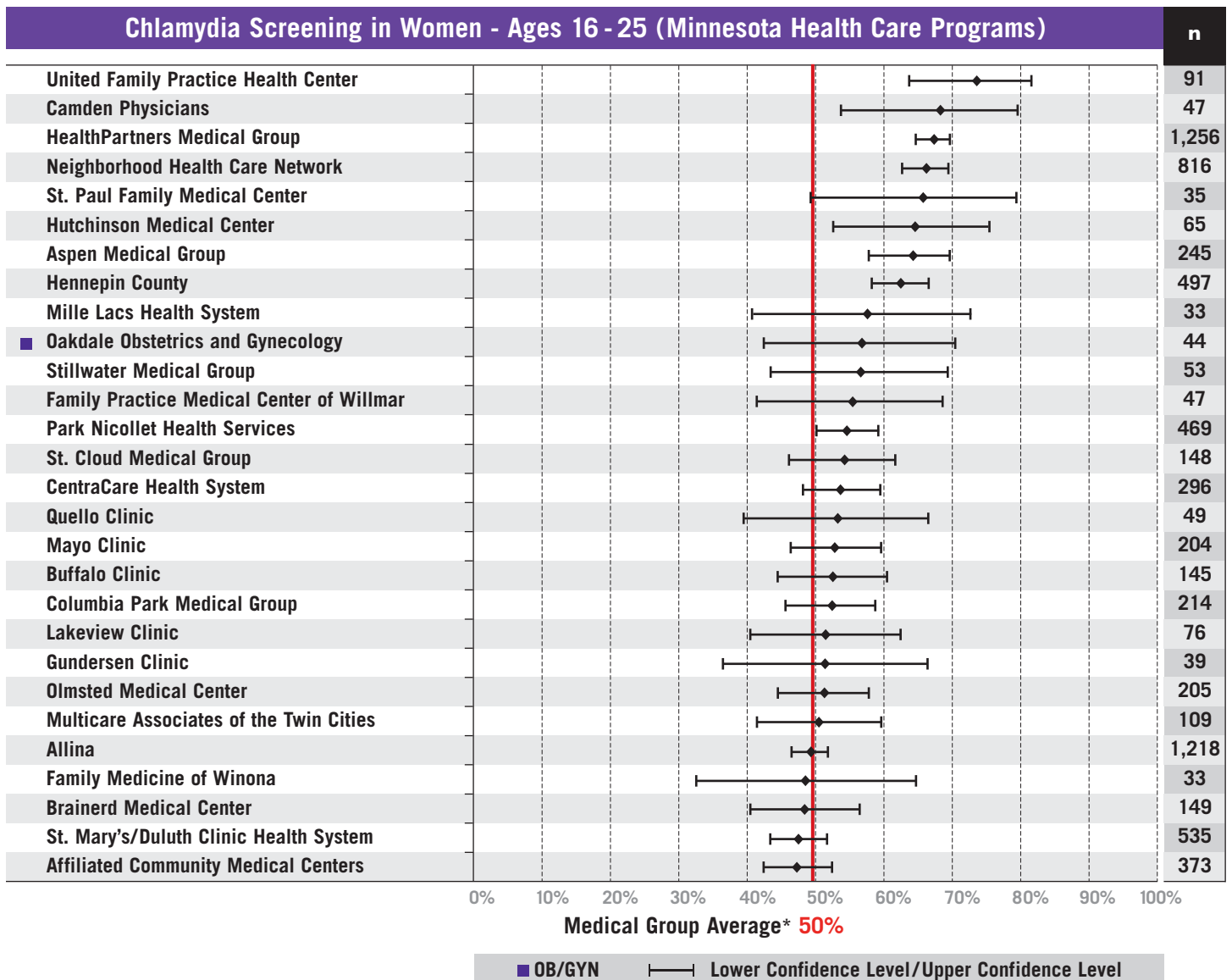
Chlamydia Screening in Women (Ages 16 - 25)



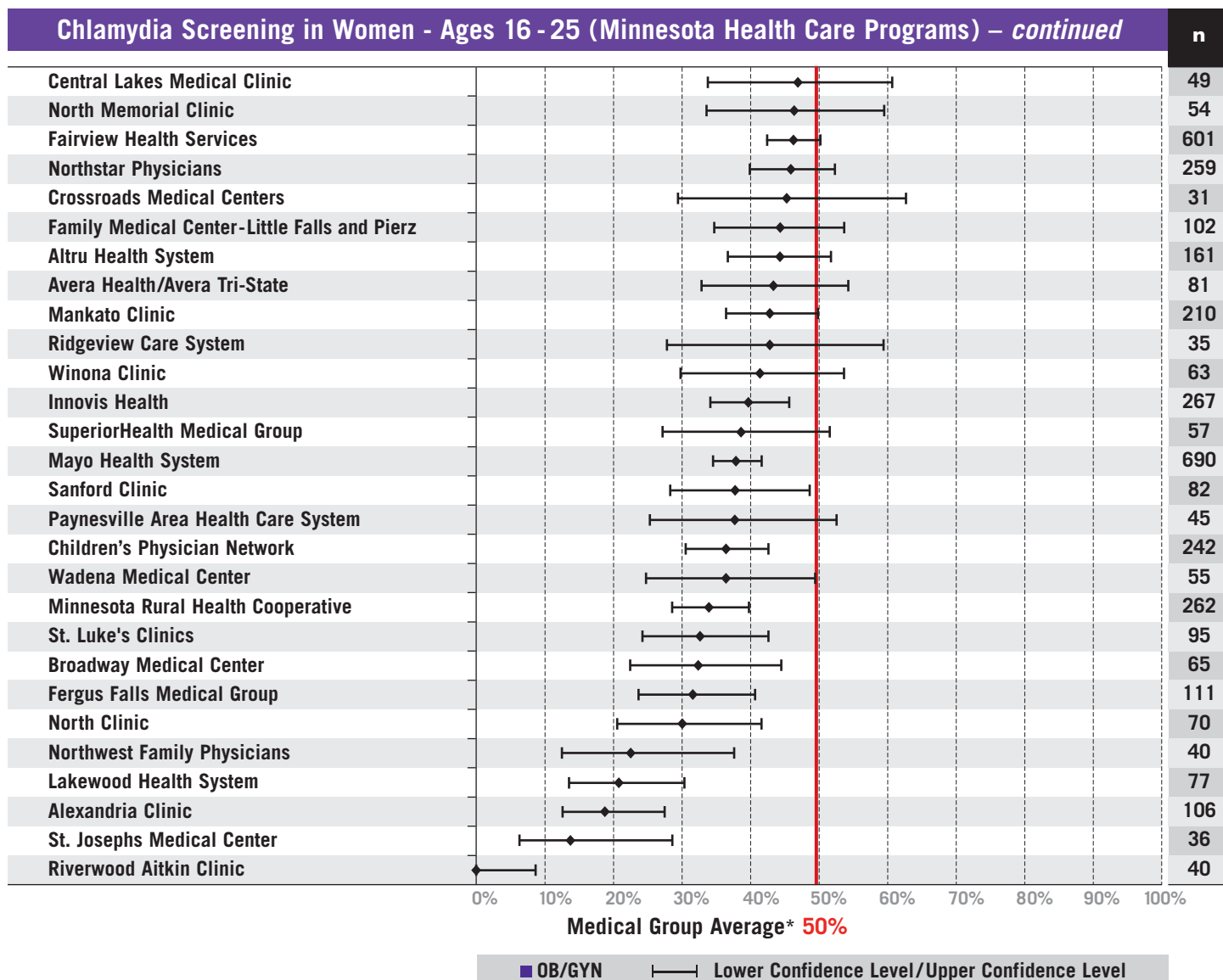
*Statewide averages (above) include those patients attributed to a medical group AND those who could not be attributed to a medical group.

Note: Technical coding issues were identified for seven medical groups so their chlamydia screening rates were suppressed in 2006 and 2007.

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*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

Chlamydia Screening in Women - Ages 16 - 25 (Minnesota Health Care Programs) – *continued*

*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

“Staying Healthy” measures

Childhood Immunization

Childhood Immunization (Combo 3)

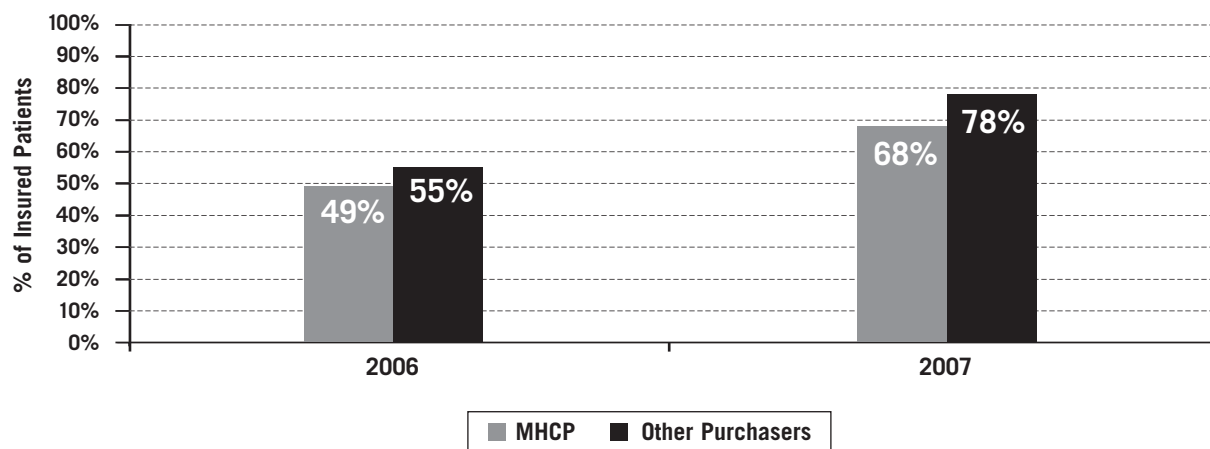
This measures the percentage of children two years of age who had the following vaccines by their second birthday:

- Four DTaP/ DT
- Three IPV
- One MMR
- Three H influenza type B
- Three Hepatitis B
- One VZV
- 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.

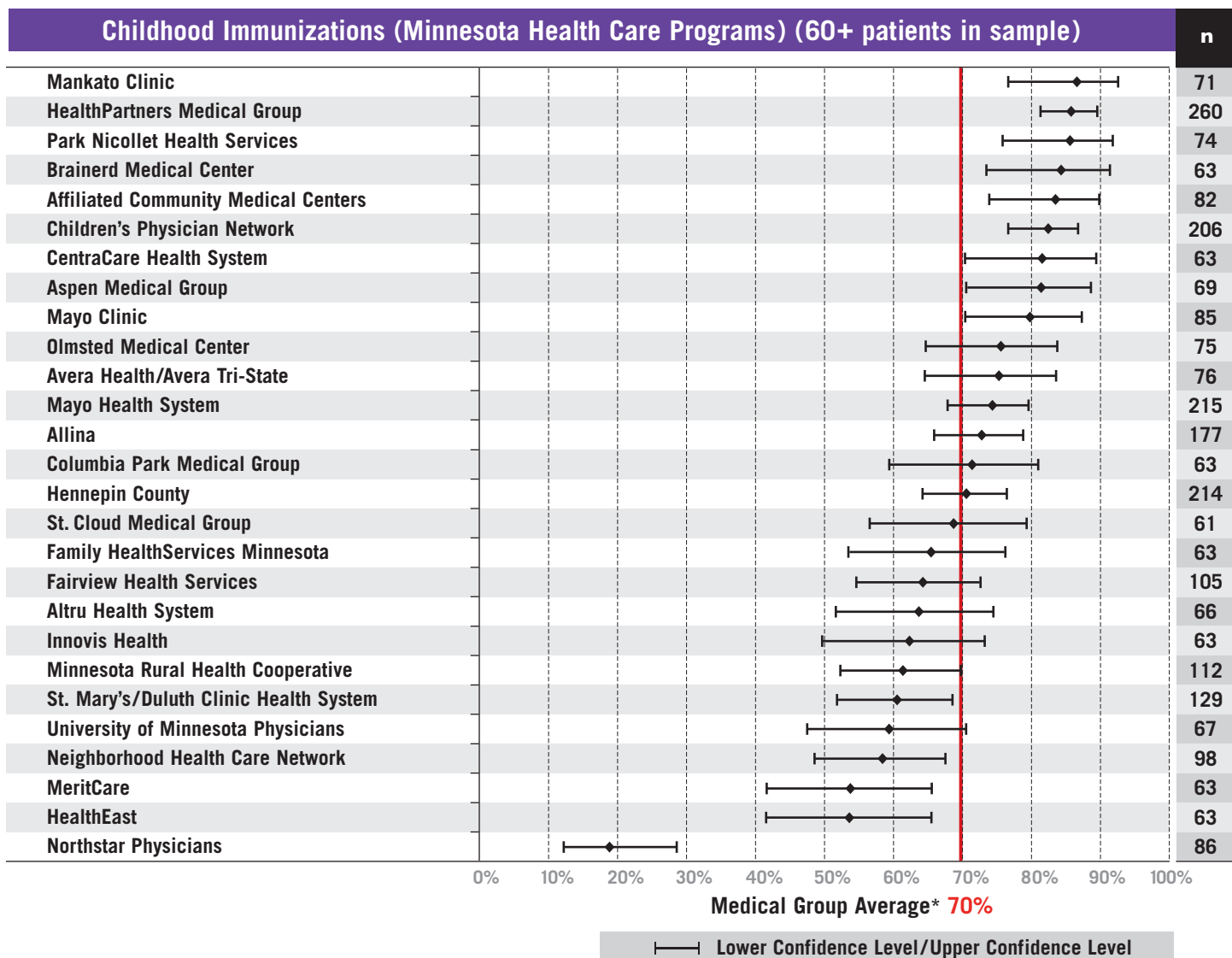
	Rate	95% CI	Total Fully Immunized	Denominator (Patients sampled)	Total Eligible
MHCP Statewide Average* (Weighted)	68.2%	66.7% - 69.6%	2,709	4,059	8,820
Other Purchasers Statewide Average* (Weighted)	78.3%	76.63% - 79.93%	1,872	2,391	11,614

Childhood Immunization (Combo 3)



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

Note: Caution is needed when comparing 2007 rates to 2006. Combo 3 was a new measure in 2006. Although 2007 rates show a significant increase, some of this increase may be related to improved documentation.



*Medical group average includes ONLY those patients who were attributed to medical groups. This rate is used when comparing a single medical group to the performance of all medical groups. The medical group average may be slightly higher than the statewide average, because it includes patients who accessed care more frequently.

MHCP and Other Purchasers Rate Comparisons

This section presents the results of analyses comparing MHCP rates to those of Other Purchasers in Minnesota for eight measures. The analyses were conducted to determine if health care disparities could be found between patients insured through MHCP and patients insured through Other Purchasers.

There is one table of results for each measure. Each table follows the same format. The statewide average is reported along with the number of patients in the denominator used to calculate the average. The next four columns include the MHCP rate and denominator size, and the Other Purchasers' rate and denominator size. The next column provides the difference in rates between MHCP and Other Purchasers. MHCP rates are LOWER if the difference is negative and HIGHER if the difference is positive. A t-test was used to determine if the difference was statistically significant. The p-value for the t-test is displayed in the ninth column. Significance was designated at

a p-value of <0.001 (the adjusted p-value for the multiple tests). Correct statistical procedures require that when medical groups are tested individually within the total number of medical groups, the p-value must be adjusted to a more stringent decision rule because of the multiple comparisons. The last column in the table provides the significance of the rate difference at the more commonly used p-value of <0.05 for reference.

At the statewide level, patients enrolled in MHCP received significantly lower rates of appropriate care for seven of the eight measures. Only for Chlamydia Screening in Women was there a significantly *higher* rate of appropriate care for MHCP patients. At the medical group level, in general, MHCP patients at the same medical group have lower rates of care compared with patients insured through Other Purchasers, although most of these differences are not significant because of small sample sizes.

(continued on next page)

“Living with Illness” measures

Appropriate Use of Asthma Medications (Ages 5-56)

Table 2a summarizes the rates for this asthma measure for patients 5-56 years of age. Twenty seven medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative, indicating that patients with asthma 5-56 years of age insured through MHCP had a significantly lower rate than patients insured through Other Purchasers.

At the medical group level, two clinics, St. Mary's/Duluth Clinic and Children's Physician Network, had statistically significant differences in rates after adjusting for multiple tests primarily due to their larger patient numbers. The differences were negative, indicating that patients with asthma 5-56 years of age insured through MHCP had statistically lower rates than patients insured through Other Purchasers. The remaining 25 medical groups had nonsignificant differences between the two comparison groups.

Table 2a: Rates for Appropriate Use of Asthma Medications (Ages 5-56)

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	14,722	91.33%	4,017	88.08%	10,705	92.55%	-4.48%	<.0001	Y	Y
HealthEast	91	94.51%	36	97.22%	55	92.73%	4.49%	0.3575	.	.
Children's Physicians Network	1,056	97.73%	312	95.51%	744	98.66%	-3.14%	0.0018	.	Y
Columbia Park Medical Group	246	91.87%	80	92.50%	166	91.57%	0.93%	0.8018	.	.
Park Nicollet	949	93.36%	115	92.17%	834	93.53%	-1.35%	0.5853	.	.
Olmsted Medical Center	74	87.84%	33	90.91%	41	85.37%	5.54%	0.4683	.	.
Mayo Health System	160	90.00%	64	90.63%	96	89.58%	1.04%	0.8296	.	.
CentraCare	176	90.91%	77	89.61%	99	91.92%	-2.31%	0.5971	.	.
Fairview Health Services	739	92.29%	153	89.54%	586	93.00%	-3.46%	0.1531	.	.
MN Rural Health Cooperative	96	89.58%	49	87.76%	47	91.49%	-3.73%	0.5493	.	.
Allina	1,306	90.81%	263	87.07%	1,043	91.75%	-4.68%	0.0188	.	Y
HealthPartners Clinics	1,813	91.23%	257	86.38%	1,556	92.03%	-5.65%	0.0030	.	Y
Affiliated Community Medical Centers	91	92.31%	35	85.71%	56	96.43%	-10.71%	0.0620	.	.
Aspen	305	87.54%	61	83.61%	244	88.52%	-4.92%	0.2982	.	.
Innovis Health	83	90.36%	40	82.50%	43	97.67%	-15.17%	0.0192	.	Y
Family Health Services Minnesota	308	91.23%	32	81.25%	276	92.39%	-11.14%	0.0349	.	Y
University of MN Physicians	102	88.24%	57	80.70%	45	97.78%	-17.08%	0.0079	.	Y
MeritCare	143	86.71%	50	80.00%	93	90.32%	-10.32%	0.0829	.	.
St. Mary's/Duluth Clinic	327	85.93%	176	79.55%	151	93.38%	-13.83%	0.0003	Y	Y
Northstar Physicians	84	76.19%	43	74.42%	41	78.05%	-3.63%	0.6962	.	.
St. Luke's Clinics	76	82.89%	35	71.43%	41	92.68%	-21.25%	0.0142	.	Y

“Living with Illness” measures

Appropriate Use of Asthma Medications (Ages 5-17)

Table 2b summarizes the rates for this asthma measure for patients 5-17 years of age. Ten medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative, indicating that patients with

asthma 5-17 years of age insured through MHCP had a significantly lower rate of appropriate asthma medication use than patients insured through Other Purchasers.

At the medical group level, none of the 10 medical groups had a statistically significant difference in rates after adjusting for multiple tests.

Table 2b: Rates for Appropriate Use of Asthma Medications (Ages 5-17)

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	4,962	94.62%	2,030	92.41%	2,932	96.15%	-3.73%	<.0001	Y	Y
Columbia Park Medical Group	74	94.59%	43	97.67%	31	90.32%	7.35%	0.1676	.	.
CentraCare	93	98.92%	43	97.67%	50	100.00%	-2.33%	0.2783	.	.
HealthEast	91	94.51%	36	97.22%	55	92.73%	4.49%	0.3575	.	.
Children's Physicians Network	1,056	97.73%	312	95.51%	744	98.66%	-3.14%	0.0018	.	Y
Allina	271	95.57%	106	95.28%	165	95.76%	-0.47%	0.8530	.	.
Park Nicollet	201	97.51%	44	93.18%	157	98.73%	-5.54%	0.0369	.	Y
Fairview Health Services	166	91.57%	58	91.38%	108	91.67%	-0.29%	0.9494	.	.
Aspen	67	92.54%	30	90.00%	37	94.59%	-4.59%	0.4767	.	.
HealthPartners Clinics	520	93.08%	131	88.55%	389	94.60%	-6.05%	0.0183	.	Y
St. Mary's/Duluth Clinic	108	89.81%	77	88.31%	31	93.55%	-5.24%	0.4157	.	.

“Living with Illness” measures

Appropriate Use of Asthma Medications (Ages 18-56)

Table 2c summarizes the rates for this asthma measure for patients 18-56 years of age. Eighteen medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative, indicating that patients with asthma 18-56 years of age insured through MHCP had a significantly lower rate of appropriate asthma medication use than patients insured through Other Purchasers.

At the medical group level, two of the 18 medical groups, Allina and St. Mary's/Duluth Clinic, had statistically significant differences in rates after adjusting for multiple tests primarily due to their larger patient numbers. Both had negative differences, indicating that patients with asthma 18-56 years of age insured through MHCP had lower rates of appropriate asthma medication use than patients insured through Other Purchasers. The remaining 16 medical groups had nonsignificant differences between the two comparison groups.

Table 2c: Rates for Appropriate Use of Asthma Medications (Ages 18-56)

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	9,760	89.66%	1,987	83.64%	7,773	91.20%	-7.56%	<.0001	Y	Y
Park Nicollet	748	92.25%	71	91.55%	677	92.32%	-0.77%	0.8175	.	.
Olmsted Medical Center	74	87.84%	33	90.91%	41	85.37%	5.54%	0.4683	.	.
Mayo Health System	160	90.00%	64	90.63%	96	89.58%	1.04%	0.8296	.	.
Fairview Health Services	573	92.50%	95	88.42%	478	93.31%	-4.88%	0.0989	.	.
MN Rural Health Cooperative	96	89.58%	49	87.76%	47	91.49%	-3.73%	0.5493	.	.
Columbia Park Medical Group	172	90.70%	37	86.49%	135	91.85%	-5.37%	0.3195	.	.
Affiliated Community Medical Centers	91	92.31%	35	85.71%	56	96.43%	-10.71%	0.0620	.	.
HealthPartners Clinics	1,293	90.49%	126	84.13%	1,167	91.17%	-7.05%	0.0104	.	Y
Innovis Health	83	90.36%	40	82.50%	43	97.67%	-15.17%	0.0192	.	Y
Allina	1,035	89.57%	157	81.53%	878	91.00%	-9.47%	0.0003	Y	Y
Family Health Services Minnesota	308	91.23%	32	81.25%	276	92.39%	-11.14%	0.0349	.	Y
University of MN Physicians	102	88.24%	57	80.70%	45	97.78%	-17.08%	0.0079	.	Y
MeritCare	143	86.71%	50	80.00%	93	90.32%	-10.32%	0.0829	.	.
CentraCare	83	81.93%	34	79.41%	49	83.67%	-4.26%	0.6198	.	.
Aspen	238	86.13%	31	77.42%	207	87.44%	-10.02%	0.1322	.	.
Northstar Physicians	84	76.19%	43	74.42%	41	78.05%	-3.63%	0.6962	.	.
St. Mary's/Duluth Clinic	219	84.02%	99	72.73%	120	93.33%	-20.61%	<.0001	Y	Y
St. Luke's Clinics	76	82.89%	35	71.43%	41	92.68%	-21.25%	0.0142	.	Y

“Living with Illness” measures

Optimal Diabetes Care

Table 3 summarizes the results for Optimal Diabetes Care. Thirteen medical groups met the required threshold of 60 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative, indicating that patients insured

through MHCP had a significantly lower rate of optimal diabetes care than patients insured through Other Purchasers.

At the medical group level, none of the 13 medical groups had statistically significant differences in rates based on the adjusted p-value ($p < 0.001$).

Table 3: Rates for Optimal Diabetes Care

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 60 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 60 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	11,091	10.47%	5,183	6.47%	5,908	11.42%	-4.95%	<.0001	Y	Y
Fairview Health Services	474	19.60%	137	18.93%	337	19.70%	-0.77%	0.8481	.	.
Columbia Park Medical Group	234	11.19%	63	11.52%	171	11.14%	0.37%	0.9357	.	.
Allina	681	9.72%	303	11.37%	378	9.45%	1.92%	0.4007	.	.
HealthPartners Clinics	1,114	13.64%	411	9.39%	703	14.08%	-4.69%	0.0276	.	Y
HealthEast	224	9.62%	70	9.21%	154	9.67%	-0.46%	0.9147	.	.
Park Nicollet	470	17.53%	216	8.90%	254	18.43%	-9.54%	0.0067	.	Y
Quello Clinic	156	15.90%	63	7.67%	93	17.29%	-9.62%	0.1068	.	.
Olmsted Medical Center	155	10.78%	61	5.29%	94	13.47%	-8.18%	0.1086	.	.
Family Health Services Minnesota	239	15.21%	60	5.16%	179	16.05%	-10.89%	0.0421	.	Y
St. Mary's/Duluth Clinic	219	9.80%	157	5.11%	62	11.95%	-6.85%	0.1246	.	.
North Memorial Clinic	173	14.20%	62	4.85%	111	15.69%	-10.83%	0.0503	.	Y
CentraCare	199	11.25%	74	3.00%	125	14.06%	-11.06%	0.0170	.	Y
Aspen	256	5.99%	65	2.51%	191	6.47%	-3.96%	0.2447	.	.

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“Getting Better” measures

Upper Respiratory Infection Treatment in Children

Table 4 summarizes the rates for this upper respiratory infection measure. Fifty-seven medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups is small (approximately 1 percent) but statistically significant and negative, indicating that children insured through MHCP have a lower rate of appropriate URI treatment than children insured through Other Purchasers.

At the medical group level, three of the 57 medical groups (Fairview Health Services,

Mayo Clinic, Avera Health/Avera Tri-State) had statistically significant differences in rates, primarily due to their larger patient numbers. Two of the three, Fairview Health Services and Mayo Clinic, had positive differences indicating that children insured through MHCP had significantly higher rates of appropriate URI treatment than children insured through Other Purchasers; Avera Health had a negative difference indicating that children insured through MHCP had significantly lower URI treatment rates than children insured through Other Purchasers. The remaining 54 medical groups all had nonsignificant differences after adjusting for multiple tests.

Table 4: Rates for Upper Respiratory Infection Treatment in Children

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	45,409	84.35%	24,793	83.79%	20,616	85.02%	-1.23%	0.0003	Y	Y
North Clinic	131	94.66%	39	100.00%	92	92.39%	7.61%	0.0766	.	.
Express Healthcare	121	94.21%	33	96.97%	88	93.18%	3.79%	0.4267	.	.
University of MN Physicians	682	95.31%	648	95.52%	34	91.18%	4.35%	0.2425	.	.
North Memorial Clinic	202	92.57%	154	95.45%	48	83.33%	12.12%	0.0052	.	Y
Gundersen Clinic	69	95.65%	36	94.44%	33	96.97%	-2.53%	0.6074	.	.
HealthPartners Clinics	3,155	92.30%	1,305	94.02%	1,850	91.08%	2.94%	0.0023	.	Y
Hennepin County	612	93.63%	581	93.63%	31	93.55%	0.08%	0.9852	.	.
Camden Physicians	136	91.18%	46	93.48%	90	90.00%	3.48%	0.4987	.	.
Superior Health Center	95	91.58%	58	93.10%	37	89.19%	3.91%	0.5029	.	.
HealthPartners Central MN	165	92.73%	67	92.54%	98	92.86%	-0.32%	0.9381	.	.
Mayo Clinic	542	89.85%	511	91.39%	31	64.52%	26.87%	<.0001	Y	Y
Park Nicollet	2,254	89.09%	747	90.50%	1,507	88.39%	2.11%	0.1309	.	.
Children's Physicians Network	4,705	88.86%	2,055	90.32%	2,650	87.74%	2.58%	0.0053	.	Y
Regina Medical Center	125	88.80%	40	90.00%	85	88.24%	1.76%	0.7704	.	.
Fairview Health Service	1,751	87.15%	940	89.68%	811	84.22%	5.46%	0.0007	Y	Y
Minute Clinic	853	86.99%	87	89.66%	766	86.68%	2.97%	0.4351	.	.
Stillwater Medical Group	388	89.69%	56	89.29%	332	89.76%	-0.47%	0.9142	.	.
Quello Clinic	161	86.96%	64	89.06%	97	85.57%	3.50%	0.5193	.	.
Northwest Family Physicians	152	85.53%	68	88.24%	84	83.33%	4.90%	0.3931	.	.
Hutchinson Medical Center	201	89.05%	125	88.00%	76	90.79%	-2.79%	0.5391	.	.
Lakeview Clinic	281	86.12%	83	87.95%	198	85.35%	2.60%	0.5655	.	.

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Table 4: Rates for Upper Respiratory Infection Treatment in Children – *continued*

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	45,409	84.35%	24,793	83.79%	20,616	85.02%	-1.23%	0.0003	Y	Y
Allina	2,779	86.97%	1,359	87.20%	1,420	86.76%	0.44%	0.7329	.	.
MeritCare	791	86.09%	515	86.02%	276	86.23%	-0.21%	0.9344	.	.
Buffalo Clinic	423	89.60%	148	85.81%	275	91.64%	-5.83%	0.0612	.	.
Suburban Emergency Associates	68	83.82%	35	85.71%	33	81.82%	3.90%	0.6628	.	.
Fergus Falls Medical Group	191	86.91%	145	85.52%	46	91.30%	-5.79%	0.3106	.	.
The Doctors Office Urgent Care	122	86.07%	47	85.11%	75	86.67%	-1.56%	0.8086	.	.
Aspen	533	85.93%	241	85.06%	292	86.64%	-1.58%	0.6012	.	.
St. Mary's/Duluth Clinic	789	84.79%	568	84.68%	221	85.07%	-0.38%	0.8925	.	.
Family Practice Medical Center of Willmar	152	84.87%	116	84.48%	36	86.11%	-1.63%	0.8117	.	.
HealthEast	521	86.76%	256	84.38%	265	89.06%	-4.68%	0.1150	.	.
Olmsted Medical Center	736	82.88%	584	83.73%	152	79.61%	4.13%	0.2288	.	.
St. Joseph's Medical Center	188	81.38%	149	83.22%	39	74.36%	8.86%	0.2056	.	.
Winona Clinic	210	82.86%	101	83.17%	109	82.57%	0.60%	0.9083	.	.
Mankato Clinic	852	83.10%	608	82.89%	244	83.61%	-0.71%	0.8021	.	.
Columbia Park Medical Group	829	84.68%	477	82.81%	352	87.22%	-4.41%	0.0816	.	.
Family Health Services Minnesota	429	83.22%	209	81.34%	220	85.00%	-3.66%	0.3106	.	.
Brainerd Medical Center	384	79.17%	300	81.33%	84	71.43%	9.90%	0.0482	.	Y
Innovis Health	503	79.32%	371	80.59%	132	75.76%	4.84%	0.2387	.	.
Multicare Associates	160	81.25%	96	80.21%	64	82.81%	-2.60%	0.6793	.	.
Affiliated Community Medical Centers	863	78.45%	680	80.15%	183	72.13%	8.02%	0.0192	.	Y
West Health Urgent Care	87	81.61%	38	78.95%	49	83.67%	-4.73%	0.5725	.	.
Apple Valley Medical Clinic	255	81.57%	65	78.46%	190	82.63%	-4.17%	0.4542	.	.
CentraCare	668	75.30%	369	78.05%	299	71.91%	6.14%	0.0672	.	.
Mayo Health System	1,844	76.90%	1,430	77.34%	414	75.36%	1.98%	0.3999	.	.
St. Luke's Clinics	204	79.41%	137	76.64%	67	85.07%	-8.43%	0.1619	.	.
Altru Health System	413	76.03%	330	75.45%	83	78.31%	-2.86%	0.5855	.	.
Sanford Clinic	318	76.10%	179	75.42%	139	76.98%	-1.56%	0.7464	.	.
Northstar Physicians	244	71.72%	163	71.78%	81	71.60%	0.17%	0.9773	.	.
St. Cloud Medical Group	293	66.21%	130	71.54%	163	61.96%	9.58%	0.0851	.	.
Family Medical Center – Little Falls and Pierz	128	68.75%	93	70.97%	35	62.86%	8.11%	0.3776	.	.
MN Rural Health Cooperative	735	70.48%	595	69.75%	140	73.57%	-3.82%	0.3722	.	.
Alexandria Clinic	167	72.46%	112	69.64%	55	78.18%	-8.54%	0.2457	.	.
Central Lakes Medical Center	143	71.33%	92	68.48%	51	76.47%	-7.99%	0.3114	.	.
Ridgeview Care System	103	68.93%	36	69.44%	67	68.66%	0.79%	0.9344	.	.
Broadway Medical Center	217	66.82%	147	67.35%	70	65.71%	1.63%	0.8113	.	.
Avera Health/Avera Tri-State	489	37.63%	394	30.20%	95	68.42%	-38.22%	<.0001	Y	Y

“Getting Better” measures

Pharyngitis Testing in Children

Table 5 summarizes the rates for this measure. Forty-six medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative indicating that children insured through MHCP had significantly lower pharyngitis testing rates than children insured through Other Purchasers.

At the medical group level, three of the 46 medical groups (Allina, Children’s Physicians Network, and Avera Health/Avera Tri-State) had statistically significant differences in rates, primarily due to their larger patient numbers. All three had negative differences indicating that patients insured through MHCP had significantly lower pharyngitis testing rates than patients insured through Other Purchasers. The remaining 43 medical groups had nonsignificant differences after adjusting for multiple tests.

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Table 5: Rates for Pharyngitis Testing in Children

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	33,312	80.65%	13,501	72.95%	19,811	85.89%	-12.94%	<.0001	Y	Y
Minute Clinic	1,567	99.04%	124	100.00%	1,443	98.96%	1.04%	0.2540	.	.
Express Health Care	183	95.63%	39	100.00%	144	94.44%	5.56%	0.1323	.	.
HealthPartners Clinics	2,184	97.16%	552	95.83%	1,632	97.61%	-1.78%	0.0298	.	Y
Multicare Associates	247	95.14%	115	94.78%	132	95.45%	-0.67%	0.8064	.	.
Stillwater Medical Group	452	94.69%	54	94.44%	398	94.72%	-0.28%	0.9316	.	.
West Health Urgent Care	181	96.13%	54	94.44%	127	96.85%	-2.41%	0.4424	.	.
HealthPartners Central MN	161	93.79%	33	93.94%	128	93.75%	0.19%	0.9679	.	.
Columbia Park Medical Group	623	95.83%	269	92.94%	354	98.02%	-5.09%	0.0017	.	Y
Northwest Family Physicians	156	96.15%	53	92.45%	103	98.06%	-5.61%	0.0847	.	.
Quello Clinic	225	91.11%	86	91.86%	139	90.65%	1.21%	0.7560	.	.
Aspen	392	90.31%	141	90.78%	251	90.04%	0.74%	0.8121	.	.
CentraCare	333	90.69%	139	90.65%	194	90.72%	-0.07%	0.9817	.	.
Buffalo Clinic	316	88.92%	92	90.22%	224	88.39%	1.82%	0.6387	.	.
Park Nicollet	1,603	91.27%	363	88.15%	1,240	92.18%	-4.02%	0.0169	.	Y
Apple Valley Medical Clinic	318	94.03%	52	88.46%	266	95.11%	-6.65%	0.0642	.	.
HealthEast	404	90.59%	160	88.13%	244	92.21%	-4.09%	0.1686	.	.
Northstar Physicians	183	86.34%	107	85.98%	76	86.84%	-0.86%	0.8673	.	.
Olmsted Medical Center	422	85.07%	276	85.51%	146	84.25%	1.26%	0.7296	.	.
Children's Physicians Network	4,358	91.60%	1,427	85.42%	2,931	94.61%	-9.19%	<.0001	Y	Y
Ridgeview Care System	210	86.67%	47	85.11%	163	87.12%	-2.01%	0.7210	.	.
The Doctors Office Urgent Care	157	93.63%	33	84.85%	124	95.97%	-11.12%	0.0201	.	Y
Fairview Health Services	1,559	87.75%	574	84.84%	985	89.44%	-4.60%	0.0076	.	Y
St. Cloud Medical Group	271	86.72%	87	82.76%	184	88.59%	-5.83%	0.1869	.	.
Lakeview Clinic	323	84.52%	73	80.82%	250	85.60%	-4.78%	0.3207	.	.
Family Health Services Minnesota	348	83.62%	112	79.46%	236	85.59%	-6.13%	0.1489	.	.
Affiliated Community Medical Centers	535	79.25%	380	78.16%	155	81.94%	-3.78%	0.3283	.	.
Hutchinson Medical Center	108	79.63%	61	77.05%	47	82.98%	-5.93%	0.4481	.	.
Alexandria Clinic	232	79.31%	146	76.71%	86	83.72%	-7.01%	0.2031	.	.
Family Medical Center – Little Falls and Pierz	154	76.62%	95	74.74%	59	79.66%	-4.92%	0.4827	.	.
St. Joseph's Medical Center	147	70.75%	114	73.68%	33	60.61%	13.08%	0.1459	.	.
Chaska Urgent Care	177	64.97%	37	72.97%	140	62.86%	10.12%	0.2513	.	.
Allina	2,400	77.83%	914	72.87%	1,486	80.89%	-8.02%	<.0001	Y	Y
Innovis Health	311	70.42%	198	72.22%	113	67.26%	4.97%	0.3561	.	.
Wadena Medical Center	147	72.11%	117	70.94%	30	76.67%	-5.73%	0.5327	.	.
Mayo Health System	1,030	70.10%	654	67.28%	376	75.00%	-7.72%	0.0092	.	Y
Sanford Clinic	191	74.87%	91	67.03%	100	82.00%	-14.97%	0.0172	.	Y
North Memorial Clinic	122	73.77%	74	66.22%	48	85.42%	-19.20%	0.0185	.	Y
St. Mary's/Duluth Clinic	406	68.23%	235	63.83%	171	74.27%	-10.44%	0.0257	.	Y
MeritCare	545	62.57%	302	61.59%	243	63.79%	-2.20%	0.5984	.	.
MN Rural Health Cooperative	561	62.92%	377	59.42%	184	70.11%	-10.69%	0.0138	.	Y
Brainerd Medical Center	342	58.77%	229	57.21%	113	61.95%	-4.74%	0.4021	.	.
Mankato Clinic	408	64.46%	198	57.07%	210	71.43%	-14.36%	0.0025	.	Y
Broadway Medical Center	113	54.87%	66	53.03%	47	57.45%	-4.42%	0.6419	.	.
St. Luke's Clinics	158	54.43%	97	45.36%	61	68.85%	-23.49%	0.0039	.	Y
Altru Health System	267	39.33%	186	36.02%	81	46.91%	-10.89%	0.0939	.	.
Avera Health/Avera Tri-State	384	27.60%	316	21.84%	68	54.41%	-32.58%	<.0001	Y	Y

“Staying Healthy” measures**Breast Cancer Screening (Women Ages 52-69)**

Table 6 summarizes the rates for the breast cancer screening measure. Forty-seven medical groups met the minimum threshold of 30 patients for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups is statistically significant and negative indicating that women insured through MHCP have lower breast cancer screening rates than women insured through Other Purchasers.

At the medical group level, 27 of the 47 medical groups had statistically significant differences in rates after adjusting for multiple tests. All 27 had negative differences indicating that women insured through MHCP had significantly lower breast cancer screening rates than women insured through Other Purchasers. The remaining 20 medical groups all had nonsignificant differences after adjusting for multiple tests.

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Table 6: Rates for Breast Cancer Screening (Women Ages 52-69)

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	99,295	75.52%	7,889	57.56%	91,406	77.07%	-19.51%	<.0001	Y	Y
Riverwood Aitkin Clinic	112	86.61%	37	86.49%	75	86.67%	-0.18%	0.9790	.	.
Central Lakes Medical Center	314	87.58%	37	83.78%	277	88.09%	-4.30%	0.4561	.	.
Fergus Falls Medical Group	273	82.05%	45	82.22%	228	82.02%	0.20%	0.9739	.	.
Mankato Clinic	884	85.18%	79	78.48%	805	85.84%	-7.36%	0.0790	.	.
Hutchinson Medical Center	243	75.31%	37	75.68%	206	75.24%	0.43%	0.9552	.	.
Mayo Clinic	410	82.93%	142	74.65%	268	87.31%	-12.67%	0.0012	.	Y
North Clinic	1,467	84.25%	39	74.36%	1,428	84.52%	-10.16%	0.0855	.	.
MeritCare	1,229	81.77%	185	72.97%	1,044	83.33%	-10.36%	0.0008	Y	Y
Wadena Medical Center	103	71.84%	40	72.50%	63	71.43%	1.07%	0.9062	.	.
Winona Clinic	429	80.65%	32	71.88%	397	81.36%	-9.49%	0.1913	.	.
HealthPartners Clinics	16,898	87.25%	569	71.35%	16,329	87.80%	-16.45%	<.0001	Y	Y
Aspen	2,174	85.60%	116	70.69%	2,058	86.44%	-15.75%	<.0001	Y	Y
Park Nicollet	8,044	87.10%	269	70.26%	7,775	87.68%	-17.42%	<.0001	Y	Y
Olmsted Medical Center	603	85.90%	90	70.00%	513	88.69%	-18.69%	<.0001	Y	Y
Altru Health System	333	80.48%	62	69.35%	271	83.03%	-13.67%	0.0143	.	Y
Hennepin County	678	76.11%	351	69.23%	327	83.49%	-14.26%	<.0001	Y	Y
CentraCare	892	86.10%	126	69.05%	766	88.90%	-19.86%	<.0001	Y	Y
Affiliated Community Medical Centers	750	82.67%	130	66.92%	620	85.97%	-19.04%	<.0001	Y	Y
St. Cloud Medical Group	608	81.41%	45	66.67%	563	82.59%	-15.93%	0.0082	.	Y
Superior Health Center	227	78.85%	39	66.67%	188	81.38%	-14.72%	0.0405	.	Y
Sanford Clinic	908	84.69%	33	66.67%	875	85.37%	-18.70%	0.0034	.	Y
St. Joseph's Medical Center	162	74.69%	42	66.67%	120	77.50%	-10.83%	0.1646	.	.
Brainerd Medical Center	486	86.01%	61	65.57%	425	88.94%	-23.37%	<.0001	Y	Y
Quello Clinic	896	78.57%	84	65.48%	812	79.93%	-14.45%	0.0021	.	Y
Innovis Health	741	78.81%	177	63.84%	564	83.51%	-19.67%	<.0001	Y	Y
Alexandria Clinic	280	82.50%	49	65.31%	231	86.15%	-20.84%	0.0005	Y	Y
Mayo Health System	1,283	78.88%	316	63.61%	967	83.87%	-20.26%	<.0001	Y	Y
MN Rural Health Cooperative	752	76.20%	190	62.63%	562	80.78%	-18.15%	<.0001	Y	Y
Buffalo Clinic	459	76.25%	40	62.50%	419	77.57%	-15.07%	0.0324	.	Y
St. Mary's/Duluth Clinic	1,299	77.29%	227	61.23%	1,072	80.69%	-19.46%	<.0001	Y	Y
Bloomington Lake Clinic	415	80.00%	43	60.47%	372	82.26%	-21.79%	0.0007	Y	Y
North Memorial Clinic	725	73.66%	60	60.00%	665	74.89%	-14.89%	0.0122	.	Y
Lakewood Health System	105	71.43%	37	59.46%	68	77.94%	-18.48%	0.0452	.	Y
Fairview Health Service	4,502	77.03%	305	59.02%	4,197	78.34%	-19.33%	<.0001	Y	Y
HealthEast	1,796	78.17%	92	58.70%	1,704	79.23%	-20.53%	<.0001	Y	Y
Allina	9,034	78.29%	536	58.40%	8,498	79.55%	-21.15%	<.0001	Y	Y
St. Luke's Clinics	475	82.53%	73	57.53%	402	87.06%	-29.53%	<.0001	Y	Y
Northstar Physicians	676	74.85%	132	56.06%	544	79.41%	-23.35%	<.0001	Y	Y
Multicare Associates	512	75.78%	43	55.81%	469	77.61%	-21.80%	0.0014	.	Y
Avera Health/Avera Tri-State	262	76.34%	54	55.56%	208	81.73%	-26.18%	<.0001	Y	Y
University of MN Physicians	677	72.97%	179	54.75%	498	79.52%	-24.77%	<.0001	Y	Y
Family Medical Center – Little Falls and Pierz	284	81.69%	64	54.69%	220	89.55%	-34.86%	<.0001	Y	Y
Neighborhood Health Care Network	434	59.68%	244	53.28%	190	67.89%	-14.62%	0.0021	.	Y
Family Health Services Minnesota	2,947	75.06%	116	48.28%	2,831	76.16%	-27.88%	<.0001	Y	Y
Ridgeview Care System	473	70.40%	40	47.50%	433	72.52%	-25.02%	0.0009	Y	Y
Columbia Park Medical Group	1,319	72.40%	95	44.21%	1,224	74.59%	-30.38%	<.0001	Y	Y
United Family Practice Health Center	237	61.18%	73	43.84%	164	68.90%	-25.07%	0.0003	Y	Y

“Staying Healthy” measures

Cervical Cancer Screening

Table 7 summarizes the rates for the cervical cancer screening measure. Eighty medical groups met the minimum threshold of 30 persons for each comparison group. The difference in the statewide rate for the two comparison groups was statistically significant and negative indicating that women insured through MHCP had lower cervical cancer screening rates than women insured through Other Purchasers.

At the medical group level, 25 of the 80 medical groups had statistically significant differences in rates primarily due to their larger patient numbers. All 25 had negative differences indicating that women insured through MHCP had significantly lower cervical cancer screening rates than women insured through Other Purchasers. The remaining 55 medical groups had nonsignificant differences after adjusting for multiple tests.

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Table 7: Rates for Cervical Cancer Screening

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	243,056	77.58%	47,482	71.92%	195,574	78.95%	-7.03%	<.0001	Y	Y
Obstetrics & GYN Specialists	442	98.19%	65	98.46%	377	98.14%	0.32%	0.8589	.	.
John A Haugen Assoc	325	98.77%	44	97.73%	281	98.93%	-1.21%	0.5002	.	.
Metropolitan OB & GYN	185	99.46%	35	97.14%	150	100.00%	-2.86%	0.0379	.	Y
Southdale OB/GYN	367	99.18%	35	94.29%	332	99.70%	-5.41%	0.0007	Y	Y
Women's Health Consultants	270	98.15%	38	92.11%	232	99.14%	-7.03%	0.0029	.	Y
Oakdale OB/GYN	326	93.87%	69	91.30%	257	94.55%	-3.25%	0.3181	.	.
Obstetrics, GYN & Infertility	265	97.74%	32	90.63%	233	98.71%	-8.09%	0.0039	.	Y
Northland OB/GYN	127	90.55%	32	90.63%	95	90.53%	0.10%	0.9868	.	.
Winona Clinic	721	85.02%	181	85.64%	540	84.81%	0.82%	0.7889	.	.
Bloomington Lake Clinic	836	86.36%	247	83.00%	589	87.78%	-4.78%	0.0661	.	.
Quello Clinic	1,875	86.29%	215	82.33%	1,660	86.81%	-4.48%	0.0722	.	.
Family Practice Medical Center of Willmar	357	84.03%	113	82.30%	244	84.84%	-2.54%	0.5430	.	.
Central Lakes Medical Center	673	77.56%	232	81.90%	441	75.28%	6.61%	0.0506	.	Y
Superior Health Center	657	79.60%	228	81.58%	429	78.55%	3.02%	0.3598	.	.
Edina Family Physicians	959	91.14%	38	81.58%	921	91.53%	-9.95%	0.0344	.	Y
St. Cloud Medical Group	1,634	83.66%	373	81.23%	1,261	84.38%	-3.14%	0.1491	.	.
Aspen	4,652	84.22%	878	81.21%	3,774	84.92%	-3.72%	0.0065	.	Y
Park Nicollet	18,153	86.15%	1,579	81.00%	16,574	86.64%	-5.64%	<.0001	Y	Y
MeritCare	3,545	83.27%	1,152	80.30%	2,393	84.71%	-4.41%	0.0010	Y	Y
Olmsted Medical Center	1,798	81.09%	628	80.25%	1,170	81.54%	-1.28%	0.5075	.	.
Crossroads Medical Center	1,026	86.74%	114	79.82%	912	87.61%	-7.79%	0.0208	.	Y
Mankato Clinic	2,352	83.25%	623	79.61%	1,729	84.56%	-4.94%	0.0046	.	Y
CentraCare	2,469	84.89%	828	79.59%	1,641	87.57%	-7.98%	<.0001	Y	Y
Silver Lake Clinic	933	88.00%	78	79.49%	855	88.77%	-9.28%	0.0157	.	Y
Stevens Community Medical Center – Morris	137	81.02%	73	79.45%	64	82.81%	-3.36%	0.6168	.	.
Gundersen Clinic	461	79.61%	140	79.29%	321	79.75%	-0.47%	0.9093	.	.
Columbia Park Medical Group	2,840	81.23%	658	79.18%	2,182	81.85%	-2.67%	0.1239	.	.
HealthPartners Clinics	36,828	84.00%	3,375	79.14%	33,453	84.49%	-5.35%	<.0001	Y	Y
Hutchinson Medical Center	702	80.34%	195	78.97%	507	80.87%	-1.89%	0.5718	.	.
Riverwood Aitkin Clinic	286	80.77%	179	78.77%	107	84.11%	-5.34%	0.2674	.	.
Brainerd Medical Center	1,183	80.30%	411	78.59%	772	81.22%	-2.63%	0.2790	.	.
Scenic Rivers Health Services	190	78.42%	88	78.41%	102	78.43%	-0.02%	0.9970	.	.
Stillwater Medical Group	3,438	81.70%	188	78.19%	3,250	81.91%	-3.72%	0.2001	.	.
Buffalo Clinic	1,596	85.09%	369	78.05%	1,227	87.20%	-9.16%	<.0001	Y	Y
Foley Medical Center	138	77.54%	49	77.55%	89	77.53%	0.02%	0.9975	.	.
Camden Physicians	1,440	83.68%	123	77.24%	1,317	84.28%	-7.05%	0.0431	.	Y
Paynesville Area Health Care System	333	79.88%	123	77.24%	210	81.43%	-4.19%	0.3570	.	.
Allina	22,923	82.35%	3,654	77.04%	19,269	83.36%	-6.32%	<.0001	Y	Y
Unity Family Healthcare – Avon	163	81.60%	52	76.92%	111	83.78%	-6.86%	0.2921	.	.
Alexandria Clinic	716	81.42%	336	76.79%	380	85.53%	-8.74%	0.0027	.	Y

Table 7: Rates for Cervical Cancer Screening – *continued*

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	243,056	77.58%	47,482	71.92%	195,574	78.95%	-7.03%	<.0001	Y	Y
Affiliated Community Medical Centers	2,314	82.41%	953	76.71%	1,361	86.41%	-9.70%	<.0001	Y	Y
Family Health Services MN	5,808	80.20%	625	76.64%	5,183	80.63%	-3.99%	0.0181	.	Y
Mayo Clinic	1,062	77.40%	682	76.54%	380	78.95%	-2.41%	0.3685	.	.
University of MN Physicians	2,075	78.65%	1,183	76.50%	892	81.50%	-5.00%	0.0059	.	Y
Innovis Health	2,065	80.10%	953	76.18%	1,112	83.45%	-7.27%	<.0001	Y	Y
North Clinic	2,559	82.49%	225	76.00%	2,334	83.12%	-7.12%	0.0073	.	Y
Altru Health System	1,111	79.66%	485	75.67%	626	82.75%	-7.08%	0.0037	.	Y
HealthPartners Central MN	2,121	81.05%	212	75.47%	1,909	81.67%	-6.19%	0.0290	.	Y
St. Mary's/Duluth Clinic	3,684	78.31%	1,600	75.25%	2,084	80.66%	-5.41%	<.0001	Y	Y
Fairview Health Services	11,300	82.05%	2,031	75.04%	9,269	83.59%	-8.55%	<.0001	Y	Y
Multicare Associates	1,131	80.28%	376	75.00%	755	82.91%	-7.91%	0.0016	.	Y
Broadway Medical Center	391	80.05%	172	75.00%	219	84.02%	-9.02%	0.0268	.	Y
Avera Health/Avera Tri-State	790	82.41%	301	74.75%	489	87.12%	-12.37%	<.0001	Y	Y
Fergus Falls Medical Group	743	75.50%	307	74.59%	436	76.15%	-1.55%	0.6277	.	.
Lakeview Clinic	1,229	83.40%	215	74.42%	1,014	85.31%	-10.89%	<.0001	Y	Y
North Memorial Clinic	1,322	79.95%	242	74.38%	1,080	81.20%	-6.82%	0.0166	.	Y
MN Rural Health Cooperative	1,908	77.73%	887	73.84%	1,021	81.10%	-7.25%	0.0001	Y	Y
United Family Practice Health Center	716	76.12%	377	73.74%	339	78.76%	-5.02%	0.1156	.	.
Fairview Mesaba Clinic	413	77.00%	229	73.80%	184	80.98%	-7.18%	0.0849	.	.
HealthEast	3,637	81.83%	621	73.43%	3,016	83.55%	-10.12%	<.0001	Y	Y
Sanford Clinic	2,440	85.86%	225	73.33%	2,215	87.13%	-13.80%	<.0001	Y	Y
Grand Itasca Clinic	603	83.25%	92	72.83%	511	85.13%	-12.30%	0.0036	.	Y
Northstar Physicians	1,807	76.65%	753	72.51%	1,054	79.60%	-7.09%	0.0004	Y	Y
Family Medical Center – Little Falls and Pierz	632	80.38%	260	72.31%	372	86.02%	-13.71%	<.0001	Y	Y
United Clinics of Faribault County	81	71.60%	42	71.43%	39	71.79%	-0.37%	0.9709	.	.
Lakewood Health System	402	74.13%	262	71.37%	140	79.29%	-7.91%	0.0844	.	.
Neighborhood Health Care Network	1,838	73.72%	1,349	70.87%	489	81.60%	-10.73%	<.0001	Y	Y
Family Medicine of Winona	214	76.17%	92	70.65%	122	80.33%	-9.68%	0.1000	.	.
Mayo Health System	3,992	74.12%	1,988	70.52%	2,004	77.69%	-7.17%	<.0001	Y	Y
Hennepin County	1,973	73.75%	1,424	70.29%	549	82.70%	-12.40%	<.0001	Y	Y
Ridgeview Care System	1,189	80.57%	161	70.19%	1,028	82.20%	-12.01%	0.0003	Y	Y
Northwest Family Physicians	1,257	77.33%	134	70.15%	1,123	78.18%	-8.03%	0.0358	.	Y
Mille Lacs Clinics	257	77.04%	118	68.64%	139	84.17%	-15.53%	0.0032	.	Y
St. Luke's Clinics	1,071	74.42%	354	67.80%	717	77.68%	-9.89%	0.0005	Y	Y
Apple Valley Medical Clinic	963	83.49%	62	67.74%	901	84.57%	-16.83%	0.0006	Y	Y
Wadena Medical Center	287	71.08%	202	67.33%	85	80.00%	-12.67%	0.0306	.	Y
St. Joseph's Medical Center	439	73.80%	198	66.16%	241	80.08%	-13.92%	0.0010	Y	Y
Regina Medical Center	575	75.30%	46	60.87%	529	76.56%	-15.69%	0.0179	.	Y
St. Paul Family Medical Center	91	50.55%	61	50.82%	30	50.00%	0.82%	0.9414	.	.

“Staying Healthy” measures

Chlamydia Screening in Women

Table 8 summarizes the rates for the chlamydia screening measure. Fifty-one medical groups met the minimum threshold of 30 persons for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and positive indicating that women insured through MHCP had significantly higher chlamydia screening rates than women insured through Other Purchasers.

At the medical group level, 13 of the 51 medical groups had statistically significant differences in rates primarily due to their larger patient numbers. All 13 had positive differences indicating that women insured through MHCP had significantly higher chlamydia screening rates than women insured through Other Purchasers. The remaining 38 medical groups had nonsignificant differences after adjusting for multiple tests.

Table 8: Rates for Chlamydia Screening in Women

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	45,195	40.76%	13,745	47.85%	31,450	37.67%	10.18%	<.0001	Y	Y
United Family Practice Health Center	134	65.67%	91	73.63%	43	48.84%	24.79%	0.0048	•	Y
Camden Physicians	225	59.11%	47	68.09%	178	56.74%	11.34%	0.1594	•	•
HealthPartners	6,390	59.37%	1,256	67.28%	5,134	57.44%	9.84%	<.0001	Y	Y
Neighborhood Health Care Network	1,215	59.92%	816	66.05%	399	47.37%	18.69%	<.0001	Y	Y
Hutchinson Medical Center	197	52.28%	65	64.62%	132	46.21%	18.40%	0.0150	•	Y
Aspen Medical Group	853	48.77%	245	64.08%	608	42.60%	21.48%	<.0001	Y	Y
Hennepin County	577	58.58%	497	62.37%	80	35.00%	27.37%	<.0001	Y	Y
Oakdale OB/GYN	90	50.00%	44	56.82%	46	43.48%	13.34%	0.2058	•	•
Stillwater Medical Group	553	45.93%	53	56.60%	500	44.80%	11.80%	0.1011	•	•
Family Practice Medical Center of Willmar	86	52.33%	47	55.32%	39	48.72%	6.60%	0.5417	•	•
Park Nicollet	3,283	40.48%	469	54.58%	2,814	38.13%	16.45%	<.0001	Y	Y
St. Cloud Medical Group	469	43.07%	148	54.05%	321	38.01%	16.05%	0.0011	•	Y
CentraCare	690	46.38%	296	53.72%	394	40.86%	12.85%	0.0008	Y	Y
Quello Clinic	311	36.33%	49	53.06%	262	33.21%	19.86%	0.0080	•	Y
Mayo Clinic	259	48.65%	204	52.94%	55	32.73%	20.21%	0.0078	•	Y
Buffalo Clinic	440	42.27%	145	52.41%	295	37.29%	15.13%	0.0025	•	Y
Columbia Park Medical Group	611	45.50%	214	52.34%	397	41.81%	10.52%	0.0127	•	Y
Lakeview Clinic	296	48.31%	76	51.32%	220	47.27%	4.04%	0.5431	•	•
Gunderson Clinic	105	44.76%	39	51.28%	66	40.91%	10.37%	0.3017	•	•
Olmsted Medical Center	398	42.21%	205	51.22%	193	32.64%	18.58%	0.0002	Y	Y
Multicare Associates	273	39.93%	109	50.46%	164	32.93%	17.53%	0.0038	•	Y
Allina	4,707	44.47%	1,218	49.18%	3,489	42.82%	6.36%	0.0001	Y	Y

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Table 8: Rates for Chlamydia Screening in Women – *continued*

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 30 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 30 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	45,195	40.76%	13,745	47.85%	31,450	37.67%	10.18%	<.0001	Y	Y
Family Medicine of Winona	64	29.69%	33	48.48%	31	9.68%	38.81%	0.0007	Y	Y
Brainerd Medical Center	210	43.81%	149	48.32%	61	32.79%	15.54%	0.0394	•	Y
St. Mary's/Duluth Clinic	992	42.34%	535	47.48%	457	36.32%	11.15%	0.0004	Y	Y
Affiliated Community Medical Centers	622	40.84%	373	47.18%	249	31.33%	15.86%	<.0001	Y	Y
Central Lakes Medical Center	92	40.22%	49	46.94%	43	32.56%	14.38%	0.1605	•	•
North Memorial Clinic	213	35.21%	54	46.30%	159	31.45%	14.85%	0.0484	•	Y
Fairview Health Services	2,077	44.82%	601	46.09%	1,476	44.31%	1.78%	0.4593	•	•
Northstar Physicians	434	44.01%	259	45.95%	175	41.14%	4.80%	0.3228	•	•
Crossroads Medical Centers	232	45.26%	31	45.16%	201	45.27%	-0.11%	0.9907	•	•
Family Medical Center – Little Falls and Pierz	189	37.04%	102	44.12%	87	28.74%	15.38%	0.0291	•	Y
Altru Health System	311	35.69%	161	44.10%	150	26.67%	17.43%	0.0013	•	Y
Avera Health/Avera Tri-State	200	32.00%	81	43.21%	119	24.37%	18.84%	0.0050	•	Y
Mankato Clinic	604	36.92%	210	42.86%	394	33.76%	9.10%	0.0273	•	Y
Ridgeview Care System	233	38.20%	35	42.86%	198	37.37%	5.48%	0.5382	•	•
Winona Clinic	190	30.00%	63	41.27%	127	24.41%	16.86%	0.0170	•	Y
Innovis Health	484	34.09%	267	39.70%	217	27.19%	12.51%	0.0039	•	Y
Superior Health Clinic	135	37.04%	57	38.60%	78	35.90%	2.70%	0.7484	•	•
Mayo Health System	1,300	34.31%	690	37.97%	610	30.16%	7.81%	0.0031	•	Y
Sanford Clinic	617	29.98%	82	37.80%	535	28.79%	9.02%	0.0969	•	•
Paynesville Area Health Care System	79	27.85%	45	37.78%	34	14.71%	23.07%	0.0235	•	Y
Children's Physician Network	1,312	26.37%	242	36.36%	1,070	24.11%	12.25%	<.0001	Y	•
MN Rural Health Cooperative	464	32.54%	252	34.92%	212	29.72%	5.20%	0.2334	•	•
St. Luke's Clinic	210	34.76%	95	32.63%	115	36.52%	-3.89%	0.5557	•	•
Broadway Medical Center	114	21.05%	65	32.31%	49	6.12%	26.19%	0.0007	Y	•
Fergus Falls Medical Group	163	30.67%	111	31.53%	52	28.85%	2.69%	0.7289	•	•
North Clinic	381	26.25%	70	30.00%	311	25.40%	4.60%	0.4295	•	•
Northwest Family Physicians	250	36.00%	40	22.50%	210	38.57%	-16.07%	0.0523	•	Y
Lakewood Health System	111	18.02%	77	20.78%	34	11.76%	9.01%	0.2547	•	•
Alexandria Clinic	183	15.30%	106	18.87%	77	10.39%	8.48%	0.1158	•	•

“Staying Healthy” measures

Childhood Immunization

Table 9 summarizes the rates for the childhood immunization measure. Five medical groups met the minimum threshold of 60 persons for each comparison group (MHCP vs. Other Purchasers).

The difference in the statewide rate for the two comparison groups was statistically significant and negative indicating that children insured

through MHCP had significantly lower childhood immunization rates than children insured through Other Purchasers.

At the medical group level, none of the medical groups had statistically significant differences in rates.

Table 9: Rates for Childhood Immunization

Medical Group	MNCM Denominator	MNCM Rate	MHCP Denominator (Minimum 60 patients)	MHCP Rate	Other Purchasers Denominator (Minimum 60 patients)	Other Purchasers Rate	Rate Diff (MHCP-Other Purchasers)	p-value	p-value 0.001	p-value 0.05
Statewide Average	6,450	73.67%	4,059	68.19%	2,391	78.33%	-10.14%	<.0001	Y	Y
HealthPartners Clinics	399	86.73%	260	85.87%	139	87.13%	-1.26%	0.7242	•	•
Park Nicollet	222	87.95%	74	85.69%	148	88.53%	-2.84%	0.5397	•	•
Children's Physicians Network	655	85.20%	206	82.35%	449	86.27%	-3.92%	0.1900	•	•
Allina	315	76.31%	177	72.93%	138	78.57%	-5.64%	0.2427	•	•
Fairview Health Services	211	69.59%	105	64.09%	106	72.71%	-8.62%	0.1736	•	•

Future Plans

MNCM also publishes the *Health Care Quality Report*. This report includes most of Minnesota's managed care population and provides ample sample size to publicly report medical group comparisons. This *Health Care Disparities Report for Minnesota Health Care Programs* provides medical group rates at a more granular level, which presents an opportunity to identify whether performance rates differ at the statewide level and by purchaser within a medical group. Both perspectives will help medical groups direct resources for quality improvement within their practices. MNMCM and DHS will continue to produce these reports annually and provide further trending.

Six medical groups – HealthPartners Medical Group, Children's Physician Network, Park Nicollet Health Services, Aspen Medical Group, CentraCare Health System, and Mayo Clinic – achieved above-average rates of care for patients insured through MHCP more frequently than other medical groups. Each of these medical groups achieved these above-average rates on at least four of the eight measures, although

there were several other medical groups that achieved high performance rates on a smaller number of measures. These high-performing medical groups may have systems in place that support the special needs of patients insured through MHCP and contribute to the higher performance rates. Case studies of medical groups that have higher performance rates for MHCP clients may offer insights that could be used by others to improve care for this population.

The data currently used in this report limit the ability to understand the underlying causes and reasons for different rates between MHCP and Other Purchasers. Even when health care coverage is available, as is the case for patients insured through MHCP, patients of lower socioeconomic status have different rates of care. MNMCM will explore ways to obtain additional data elements such as race, ethnicity or primary language information that may contribute to a better understanding of these health care disparities.

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75 Medical Groups (Primary Care) Reported in 2007

Affiliated Community Medical Centers	Fergus Falls Medical Group	Paynesville Area Health Care System
Albany Medical Center	Foley Medical Center	Quello Clinic
Alexandria Clinic	Grand Itasca Clinic	Regina Medical Center
Allina	Gundersen Clinic	Ridgeview Care System
Altru Health System	HealthEast	Riverwood Aitkin Clinic
Apple Valley Medical Center	HealthPartners Central	Scenic Rivers Health Services
Aspen Medical Group	Minnesota Clinics	Silver Lake Clinic
Avera Health/Tri-State	HealthPartners Medical Group	Sanford Clinic
Bloomington Lake Clinic	Hennepin County	Southern Metro Medical Clinics
Brainerd Medical Center	Hutchinson Medical Center	St. Cloud Medical Group
Broadway Medical Center	Innovis Health	St. Joseph's Family Clinics
Buffalo Clinic	Lakeview Clinic	St. Luke's Clinics
Camden Physicians	Lakewood Health System	St. Mary's/Duluth Clinic Health System
Cedar Riverside People's Center	Mankato Clinic	St. Paul Family Medical Center
CentraCare Health System	Mayo Clinic	Stevens Community Medical Center
Central Lakes Medical Center	Mayo Health System	Stillwater Medical Group
Children's Physician Network	MeritCare	SuperiorHealth Medical Group
Columbia Park Medical Group	Mille Lacs Health System	United Clinics of Faribault County
Crossroads Medical Centers	MN Rural Health Cooperative	United Family Practice Health Center
Edina Family Physicians	Multicare Associates of the Twin Cities	University of Minnesota Physicians
Fairview Health Services	Neighborhood Health Care Network	Wadena Medical Center
Fairview Mesaba Clinic	North Clinic	Winona Clinic
Family HealthServices Minnesota	North Memorial Clinic	
Family Medical Center – Little Falls and Pierz	Northstar Physicians	
Family Medicine of Winona	Northwest Family Physicians	
Family Practice Medical Center of Willmar	Olmsted Medical Center	
	Park Nicollet Health Services	

Additional Provider Types Reported in 2007**8 Obstetrics/Gynecology Clinics**

John A. Haugen Associates	Obstetrics, Gynecology & Infertility
Metropolitan Obstetrics and Gynecology	Obstetrics & Gynecology Specialists
Northland Ob-Gyn Associates	Southdale Consultants, Obstetrics & Gynecology
Oakdale Obstetrics & Gynecology	Women's Health Consultants

6 Urgent/Convenience Care Clinics

Chaska Urgent Care	Suburban Emergency Associates
Express Healthcare	The Doctors Office Urgent Care
MinuteClinic	WestHealth Urgent Care



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