

Methodology

Quality Measures Description

The Institute of Medicine (2001) defines quality as "the degree to which health care services for individuals and populations increase the likelihood of desired health outcomes and are consistent with current professional knowledge." Using claims data from the Colorado All Payer Claims Database (CO APCD), CIVHC has produced two quality measures based on nationally endorsed specifications¹ and used by national and state-sponsored programs.

Preventive Measures

Preventive care is an important part of health care quality by helping populations remain healthy. The measure of preventive care included in this report is:

 Breast Cancer screening, calculated as the percentage of women 50 to 74 years old who had a mammogram to screen for breast cancer during the previous two years.

Chronic Condition Management

This report also includes a measure that indicate if a disease or condition is being managed according to current professional knowledge. Managing chronic conditions appropriately is an important part of health care quality because it prevents further complications in populations living with the condition. The condition management measure included in this report is:

 Diabetes A1c testing, calculated as the percentage of patients 18 to 75 years old, with primary Diabetes Types I or II who received the HbA1c test in a clinical encounter during the previous year

Demographic Characteristics

Demographic characteristics reflect the information available in the most recent record of a person in a calendar year. For example, if the most recent record is from the month of March 2017, then the person's location of residence, gender, and other demographic information will be as of March 2017. The only exception is for age, which is calculated as of December 31st of the reporting year.

Only residents of Colorado are included in the reports, that is, persons whose most recent record indicates that the person resides in a ZIP code within the state of Colorado. The measures are also displayed by rural and urban populations, a grouping that is originally based on the U.S. Office of Management and Budget county-level designation: counties which are part of a Metropolitan Statistical Area are considered "urban", all other counties, whether frontier or rural, are considered "rural" in the Summary Tables² Geographic Groupings Geographic breakdowns available in the report include counties

¹ The quality measures used in this report are endorsed by the National Qualify Forum – NQF (breast cancer screening NQF 2372; Diabetes Hemoglobin A1c screening NQF 0057).

² Colorado Rural Health Center (2016). Colorado: County Designations, 2016. Retrieved from http://coruralhealth.wpengine.netdna-cdn.com/wp-content/uploads/2016/03/2016.CountyDesignations.pdf on July 13, 2017.

and Health Statistics Regions (HSRs). HSRs represent geographic areas assigned by the Colorado Department of Public Health and Environment in partnership with state and local public health officials. Typically, an HSR represents a group of adjacent counties. Some HSRs, however, represent a single county.

Geographic Groupings

Geographic breakdowns available in the report include counties and Health Statistics Regions (HSRs). HSRs represent geographic areas assigned by the Colorado Department of Public Health and Environment in partnership with state and local public health officials³. Typically, an HSR represents a group of adjacent counties. Some HSRs, however, represent a single county.

Payer Types

Payer type is created by assigning each person to only one payer type per year based on their primary medical insurance information during a reporting year. One payer type will be assigned, regardless of whether the person had insurance for just a single month, the full year, or any number of months in between. For months with overlapping insurance for distinct payer types, a hierarchy is implemented, favoring the month-level assignment to Medicare Advantage first, Commercial second, Medicaid last. The assignment for the entire year is based on the payer type with the highest number of months with commercial, Medicaid or Medicare Advantage insurance, based on the initial month-level assignment. In the event of a tie in number of months with insurance for a particular payer type, a similar hierarchy is implemented. For example, a person with commercial insurance for six months and Medicare Advantage insurance for the other six will receive the Medicare Advantage payer type at the annual level. A person with just four months of insurance during a year, two of them commercial, two Medicare Advantage, will receive the same annualized payer type, i.e., Medicare Advantage.

Pharmacy and dental insurance eligibility information, or secondary insurance information, is not considered when assigning a payer type. Once a person is assigned a payer type, all medical and pharmacy claim records for that person are associated with that assignment, regardless of the insurance type information on the claim record.

The payer types available in this report are: Commercial, Medicaid, Medicare FFS, Medicare Advantage, and a combination of all four types labeled as "All Payers."

Data Suppression

Following a privacy protection standard used by the Centers for Medicare & Medicaid Services, data are suppressed if the county-level denominator or numerator represents fewer than 11 persons. Throughout the reports, a blank table cell or a data point not displayed in a chart indicates that data has been suppressed due to low volume.

Data Limitations

Data presented in this report are the result of a process that strives to ensure the high quality, reliability, and accuracy of the final product. Potential areas of concern are investigated and addressed accordingly, on a regular and ongoing basis, and while every effort was made to address all known areas of potential concern for this report, some may have escaped our scrutiny.

Results for counties with small populations (fewer than 5,000 people) should be interpreted with caution since they are prone to larger than average variation over time. Counties with small populations

in the state of Colorado include: Baca, Cheyenne, Costilla, Custer, Dolores, Gilpin, Hinsdale, Jackson, Kiowa, Lincoln, Mineral, Ouray, Phillips, San Juan, Sedgwick, Saguache, and Washington.

Data Vintage

Information regarding the payers and covered lives represented in this public report is available in the Data Vintage reference guide.

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