



Medicare 2018 Part C & D Star Ratings Technical Notes

DRAFT

Document Change Log

Previous Version	Description of Change	Revision Date
-	Initial Draft	08/03/2017
08/03/2017	All instances of "Available in plan preview 2" replaced with appropriate data	08/06/2017
08/03/2017	Added HPMS Help desk contact to list of contacts	08/06/2017
08/03/2017	Table 14, fixed missing L in FAC A, LIS/DE Initial Group was L1 – 2, now L1 – L2	08/06/2017
08/03/2017	Measure C19, updated the description to be shown on Medicare Plan Finder (MPF)	08/06/2017
08/03/2017	Measures C22-C27, D08-D09, added "(on a scale from 0 to 100)" to the end of the Label for Data for MPF	08/06/2017
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08/03/2017	Preview 2 version of the technical notes generated	08/06/2017

OMB Approved Data Sources

The data collected for the Part C & D Star Ratings come from a variety of different data sources approved under the following Office of Management and Budget (OMB) Paperwork Reduction Act numbers

Data Source	OMB Number
Consumer Assessment of Healthcare Providers and Systems (CAHPS) Surveys	0938-0732
Health Outcomes Survey (HOS)	0938-0701
Healthcare Effectiveness Data and Information Set (HEDIS)	0938-1028
Part C Reporting Requirements	0938-1054
Part D Reporting Requirements	0938-0992

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Introduction

CMS created the Part C & D Star Ratings to provide quality and performance information to Medicare beneficiaries to assist them in choosing their health and drug services during the annual fall open enrollment period. We refer to them as the '2018 Medicare Part C & D Star Ratings' because they are posted prior to the 2018 open enrollment period.

This document describes the methodology for creating the Part C & D Star Ratings displayed on the Medicare Plan Finder (MPF) at <http://www.medicare.gov/> and posted on the CMS website at <http://go.cms.gov/partcanddstarratings>. A Glossary of Terms used in this document can be found in [Attachment Q](#).

The Star Ratings data are also displayed in the Health Plan Management System (HPMS). In the HPMS the data can be found by selecting: "Quality and Performance," then "Performance Metrics," then "Star Ratings and Display Measures," then "Star Ratings," and "2018" for the report period. See [Attachment R](#): Health Plan Management System Module Reference for descriptions of the HPMS pages.

The Star Ratings Program is consistent with CMS' Quality Strategy of optimizing health outcomes by improving quality and transforming the health care system. The CMS Quality Strategy goals reflect the six priorities set out in the National Quality Strategy. These priorities include: safety, person- and caregiver-centered experience and outcomes, care coordination, clinical care, population/community health, and efficiency and cost reduction. The Star Ratings include measures applying to the following five broad categories:

1. Outcomes: Outcome measures reflect improvements in a beneficiary's health and are central to assessing quality of care.
2. Intermediate outcomes: Intermediate outcome measures reflect actions taken which can assist in improving a beneficiary's health status. Controlling Blood Pressure is an example of an intermediate outcome measure where the related outcome of interest would be better health status for beneficiaries with hypertension.
3. Patient experience: Patient experience measures reflect beneficiaries' perspectives of the care they received.
4. Access: Access measures reflect processes and issues that could create barriers to receiving needed care. Plan Makes Timely Decisions about Appeals is an example of an access measure.
5. Process: Process measures capture the health care services provided to beneficiaries which can assist in maintaining, monitoring, or improving their health status.

Differences between the 2017 Star Ratings and 2018 Star Ratings

There have been several changes between the 2017 Star Ratings and the 2018 Star Ratings. This section provides a synopsis of the notable differences; the reader should examine the entire document for full details about the 2018 Star Ratings. A table with the complete history of measures used in the Star Ratings can be found in [Attachment J](#).

1. Changes
 - a. Part C measure: C08 – Special Needs Plan (SNP) Care Management: numeric data changed from Percentage with 1 decimal place to Percentage with no decimal place.
 - b. Part C measure: C31 – Health Plan Quality Improvement: added the Part C measures C21 – Plan All-Cause Readmissions back into the improvement calculation.
 - c. Part C measure: C31 – Health Plan Quality Improvement: removed the following Part C measures from the measure calculation due to changes in the survey wording.
 - i. C23 – Getting Appointments and Care Quickly
 - ii. C24 – Customer Service
 - iii. C27 – Care Coordination

- d. Part C & D measures: C29/D05 – Members Choosing to Leave the Plan - removed exclusions for “Members who moved out of the service area” and “SNPs disproportionate share members who do not meet the SNP criteria.”
 - e. Part C & D measures: C34/D01 – Foreign Language Interpreter and TTY Availability – CMS allowed the interpreter an extra 60 seconds to answer an introductory question and up to seven minutes to answer each of the three accuracy questions that follow.
 - f. Part D measure: D14 – MTM Program Completion Rate for CMR - numeric data changed from Percentage with 1 decimal place to Percentage with no decimal place.
2. Additions
- a. Part C measure: C19 – Improving Bladder Control.
 - b. Part C measure: C20 – Medication Reconciliation Post-Discharge
3. Transitioned measures (Moved to the display page on the CMS website:
<http://go.cms.gov/partcanddstarratings>)
- a. Part D measure – High Risk Medication
4. Retired measures
- a. None

Health/Drug Organization Types Included in the Star Ratings

All health and drug plan quality and performance measure data described in this document are reported at the contract/sponsor level. Table 1 lists the contract year 2018 organization types and whether they are included in the Part C and/or Part D Star Ratings.

Table 1: Contract Year 2018 Organization Types Reported in the 2018 Star Ratings

Organization Type	Technical Notes Abbreviation	Medicare Advantage (MA)	Can Offer SNPs	Part C Ratings	Part D Ratings
1876 Cost	1876 Cost	No	No	Yes	Yes (if drugs offered)
Demonstration (Medicare-Medicaid Plan) †	MMP	No	No	No	No
Demonstration (Person Centered Community Care)	PCCC	No	No	No	No
Employer/Union Only Direct Contract Local Coordinated Care Plan (CCP)	E-CCP	Yes	No	Yes	Yes
Employer/Union Only Direct Contract Prescription Drug Plan (PDP)	E-PDP	No	No	No	Yes
Employer/Union Only Direct Contract Private Fee-for-Service (PFFS)	E-PFFS	Yes	No	Yes	Yes (if drugs offered)
HCPP 1833 Cost	HCPP	No	No	No	No
Local Coordinated Care Plan (CCP)	Local CCP	Yes	Yes	Yes	Yes
Medical Savings Account (MSA)	MSA	Yes	No	Yes	No
National PACE	PACE	No	No	No	No
Medicare Prescription Drug Plan (PDP)	PDP	No	No	No	Yes
Private Fee-for-Service (PFFS)	PFFS	Yes	No	Yes	Yes (if drugs offered)
Regional Coordinated Care Plan (CCP)	Regional CCP	Yes	Yes	Yes	Yes
Religious Fraternal Benefit Private Fee-for-Service (RFB PFFS)	R-PFFS	Yes	No	Yes	Yes (if drugs offered)
Religious Fraternal Benefit Local Coordinated Care Plan (RFB CCP)	R-CCP	Yes	No	Yes	Yes

† Note: The measure scores are displayed in HPMS only during the first plan preview. Data from these organizations are never used in processing the Star Ratings.

The Star Ratings Framework

The Star Ratings are based on health and drug plan quality and performance measures. Each measure is reported in two ways:

Score: A score is either a numeric value or an assigned 'missing data' message.

Star: The measure numeric value is converted to a Star Rating.

The measure star ratings are combined into three groups and each group is assigned 1-5 stars. The three groups are:

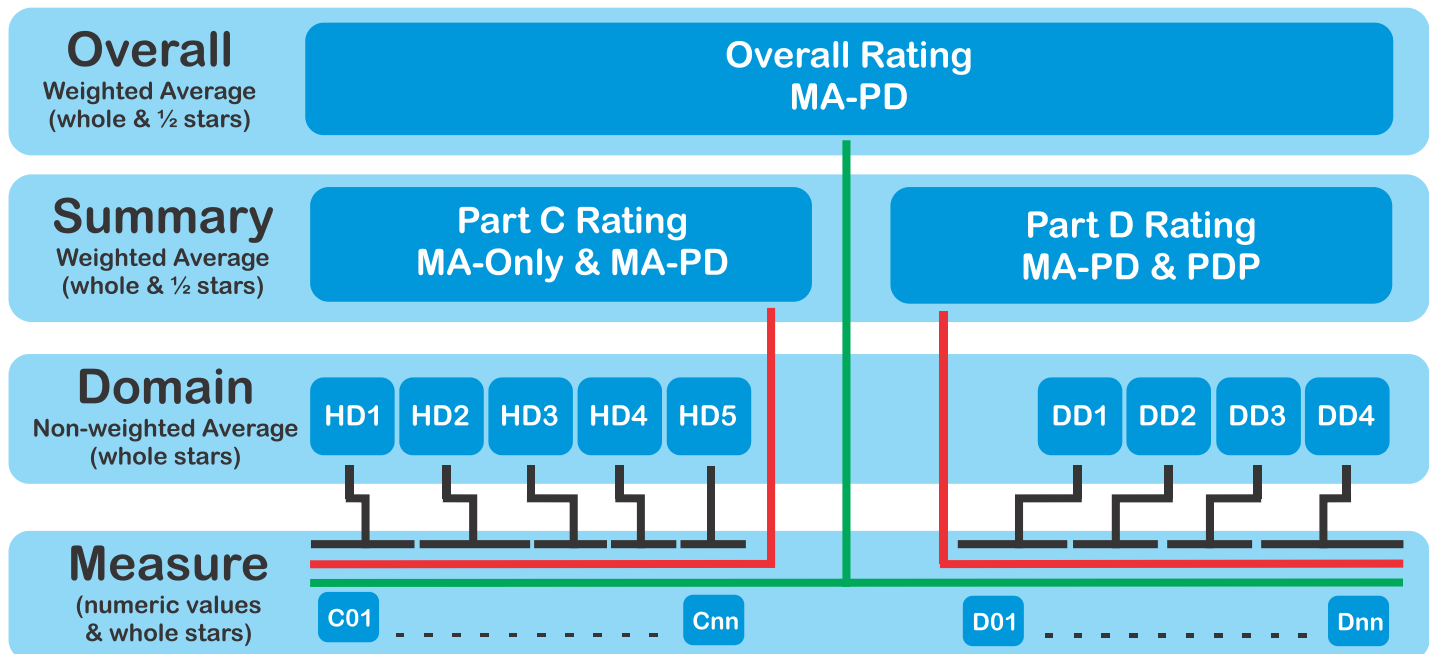
Domain: Domains group together measures of similar services. Star Ratings for domains are calculated using the non-weighted average Star Ratings of the included measures.

Summary: Part C measures are grouped to calculate a Part C Rating; Part D measures are grouped to calculate a Part D Rating. Summary ratings are calculated from the weighted average Star Ratings of the included measures.

Overall: For MA-PDs, all unique Part C and Part D measures are grouped to create an overall rating. The overall rating is calculated from the weighted average Star Ratings of the included measures.

Figure 1 shows the four levels of Star Ratings that are calculated and reported publicly.

Figure 1: The Four Levels of Star Ratings



The whole star scale used at the measure and domain levels is shown in Table 2.

Table 2: 5-Star Scale

Numeric	Graphic	Description
5	★★★★★	Excellent
4	★★★★☆	Above Average
3	★★★☆☆	Average
2	★★☆☆☆	Below Average
1	★☆☆☆☆	Poor

To allow for more variation across contracts, CMS assigns half stars in the summary and overall ratings.

As different organization types offer different benefits, CMS classifies contracts into three contract types. The highest level Star Rating differs among the contract types because the set of required measures differs by contract type. Table 3 clarifies how CMS classifies contracts for purposes of the Star Ratings and indicates the highest rating available for each contract type. Table 4 presents the relation among the three contract types and the organization types.

Table 3: Highest Rating by Contract Type

Contract Type	Offers Part C or 1876 Cost	Offers Part D	Highest Rating
MA-Only	Yes	No	Part C rating
MA-PD	Yes	Yes	Overall rating
PDP	No	Yes	Part D rating

Table 4: Relation of 2018 Organization Types to Contract Types in the 2018 Star Ratings

Organization Type	1876 Cost (no drugs)	1876 Cost (offers drugs)	Local CCP, E-CCP, R-CCP & Regional CCP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS (no drugs)	E-PFFS, PFFS & R-PFFS (offers drugs)
Rated As	MA-Only	MA-PD	MA-PD	MA-Only	PDP	MA-Only	MA-PD

Sources of the Star Ratings Measure Data

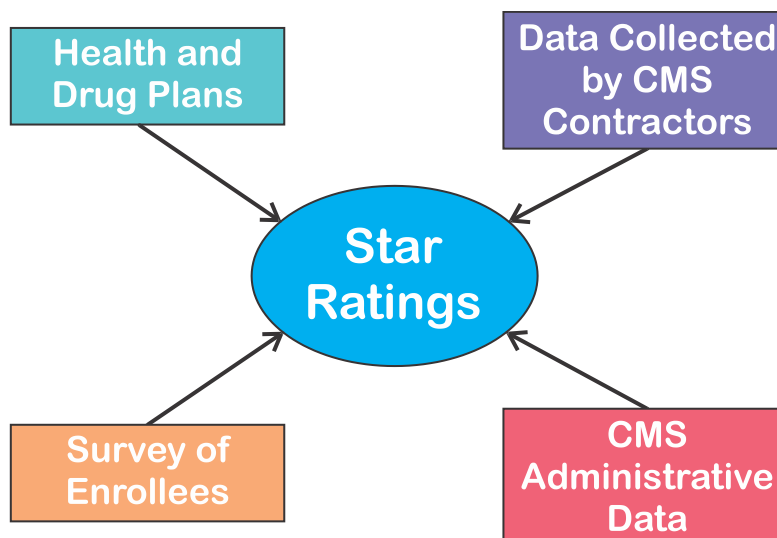
The 2018 Star Ratings include a maximum of 9 domains comprised of a maximum of 48 measures.

1. MA-Only contracts are measured on 5 domains with a maximum of 34 measures.
2. PDPs are measured on 4 domains with a maximum of 14 measures.
3. MA-PD contracts are measured on all 9 domains with a maximum of 48 measures, 45 of which are unique measures. Three of the measures are shown in both Part C and Part D so that the results for a MA-PD contract can be compared to an MA-Only contract or a PDP contract. Only one instance of those three measures is used in calculating the overall rating. The three duplicated measures are Complaints about the Health/Drug Plan (CTM), Members Choosing to Leave the Plan (MCLP), and Beneficiary Access and Performance Problems (BAPP).

For a health and/or drug plan to be included in the Part C & D Star Ratings, they must have an active contract with CMS to provide health and/or drug services to Medicare beneficiaries. All of the data used to rate the plan are collected through normal contractual requirements or directly from CMS systems. Information about Medicare Advantage contracting can be found at: <https://www.cms.gov/Medicare/Medicare-Advantage/MedicareAdvantageApps/index.html> and Prescription Drug Coverage contracting at: <https://www.cms.gov/Medicare/Prescription-Drug-coverage/PrescriptionDrugCovContra/index.html>.

The data used in the Star Ratings come from four categories of data sources which are shown in Figure 2.

Figure 2: The Four Categories of Data Sources



Improvement Measures

Unlike the other Star Rating measures which are derived from data sources external to the Star Ratings, the Part C and Part D improvement measures are derived through comparisons of a contract's current and prior year measure scores. For a measure to be included in the improvement calculation, the measure must have numeric value scores in both the current and prior year and not have had a significant specification change during those years. The Part C improvement measure includes only Part C measure scores and the Part D improvement measure includes only Part D measure scores. The measures and formulas for the improvement measure calculations are found in [Attachment I](#).

The numeric results of these calculations are not publicly posted; only the measure ratings are reported publicly. Further, to receive a Star Rating in the improvement measures, a contract must have measure scores for both years in at least half of the required measures used to calculate the Part C improvement or Part D improvement measures. Table 5 presents the minimum number of measure scores required to receive a rating for the improvement measures.

Table 5: Minimum Number of Measure Scores Required for an Improvement Measure Rating by Contract Type

Part	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
C	10 of 19	11 of 21	13 of 25	11 of 21	N/A	11 of 21
D	5 of 10*	6 of 11	6 of 11	N/A	6 of 11	6 of 11*

* Note: Does not apply to MA-Only, 1876 Cost, and PFFS contracts which do not offer drug benefits.

For a detailed description of all Part C and Part D measures, see the section entitled "Framework and Definitions for the Domain and Measure Details."

Contract Enrollment Data

The enrollment data used in the Part C and Part D "Complaints about the Health/Drug Plan" and Part D "Appeals Auto-Forward" measures are pulled from the HPMS. These enrollment files represent the number of enrolled beneficiaries the contract was paid for in a specific month. For these measures, twelve months of enrollment files are pulled (January 2016 through December 2016) and the average enrollment across those months is used in the calculations.

Enrollment data are also used when combining the plan-level data into contract-level data in the three Part C "Care for Older Adults" Healthcare Effectiveness Data and Information Set (HEDIS) measures. When there is a reported rate, the eligible population in the plan benefit package (PBP) submitted with the HEDIS data is used. If the audit designation for the PBP level HEDIS data is set to "Not Reported" (NR) or "Biased Rate" (BR) by the auditor (see following section), there is no value in the eligible population field. In these instances, twelve months of PBP-level enrollment files are pulled (January 2016 through December 2016), and the average enrollment in the plan across those months is used in calculating the combined rate.

Handling of Biased, Erroneous, and/or Not Reportable (NR) Data

The data used for CMS' Star Ratings must be accurate and reliable. CMS has identified issues with some contracts' data and has taken steps to protect the integrity of the data. For any measure scores CMS identifies to be based on inaccurate or biased data, CMS' policy is to reduce a contract's measure rating to 1 star and set the measure score to "CMS identified issues with this plan's data."

Inaccurate or biased data result from the mishandling of data, inappropriate processing, or implementation of incorrect practices. Examples include, but are not limited to: a contract's failure to adhere to HEDIS, Health Outcomes Survey (HOS), or CAHPS reporting requirements; a contract's failure to adhere to Medicare Plan Finder data requirements; a contract's errors in processing coverage determinations, organizational determinations, and appeals; a contract's failure to adhere to CMS-approved point-of-sale edits; compliance actions taken against the contract due to errors in operational areas that impact the data reported or processed for specific measures; or a contract's failure to pass validation of the data reported for specific measures. Note there is no minimum number of cases required for a contract's data to be subject to data integrity reviews.

For HEDIS data, CMS uses the audit designation information assigned by the HEDIS auditor. An audit designation of 'NR' (Not reported) is assigned when the contract chooses not to report the measure. An audit designation of 'BR' (Biased rate) is assigned when the individual measure score is materially biased (e.g., the auditor informs the contract the data cannot be reported to the National Committee for Quality Assurance (NCQA) or to CMS). When either a 'BR' or 'NR' designation is assigned to a HEDIS measure audit designation, the contract receives 1 star for the measure and the measure score is set to "CMS identified issues with this plan's data." In addition, CMS reduces contracts' HEDIS measure ratings to 1 star if the patient-level data files are not successfully submitted and validated by the submission deadline. Also, if the HEDIS summary-level data value varies substantially from the value in the patient-level data, the measure is reduced to a rating of 1 star. If an approved CAHPS or HOS vendor does not submit a contract's CAHPS or HOS data by the data submission deadline, the contract automatically receives a rating of 1 star for the CAHPS or HOS measures and the measure scores are set to "CMS identified issues with this plan's data."

Methodology for Assigning Stars to the Part C and Part D Measures

CMS assigns stars for each numeric measure score by applying one of three methods: clustering, relative distribution and significance testing, or fixed cut points. Each method is described below. [Attachment K](#) explains the clustering and relative distribution and significance testing (CAHPS) methods in greater detail.

The *Trends in Part C & D Star Rating Measure Cut Points* document is posted on the website at <http://go.cms.gov/partcanddstarratings> and is updated after each rating cycle is released.

A. Clustering

This method is applied to the majority of the Star Ratings measures, ranging from operational and process-based measures, to HEDIS and other clinical care measures. Using this method, the Star Rating for each measure is determined by applying a clustering algorithm to all the measure's numeric value scores from all contracts. Conceptually, the clustering algorithm identifies the "gaps" among the scores and creates four cut points resulting in the creation of five levels (one for each Star Rating). The scores in the same Star Rating level are as similar as possible; the scores in different Star Rating levels are as different as possible. Star Rating levels 1 through 5 are assigned with 1 being the worst and 5 being the best.

Technically, the variance in measure scores is separated into within-cluster and between-cluster sum of squares components. The clusters reflect the groupings of numeric value scores that minimize the variance of scores within the clusters. The Star Ratings levels are assigned to the clusters that minimize the within-cluster sum of squares. The cut points for star assignments are derived from the range of measure scores per cluster, and the star levels associated with each cluster are determined by ordering the means of the clusters.

B. Relative Distribution and Significance Testing (CAHPS)

This method is applied to determine valid star cut points for CAHPS measures. In order to account for the reliability of scores produced from the CAHPS survey, the method combines evaluating the relative percentile distribution with significance testing. For example, to obtain 5 stars, a contract's CAHPS measure score needs to be ranked at least at the 80th percentile and be statistically significantly higher than the national average CAHPS measure score, as well as either have not low reliability or have a measure score more than one standard error above the 80th percentile. To obtain 1 star, a contract's CAHPS measure score needs to be ranked below the 15th percentile and be statistically significantly lower than the national average CAHPS measure score, as well as either have not low reliability or have a measure score more than one standard error below the 15th percentile.

C. Fixed Cut Points

The Beneficiary Access and Performance Problems measure is unlike other measures in the Star Ratings. Each contract begins with a starting score of 100, which equates to five stars. Set value deductions are then subtracted from the starting score depending on the contracts' inclusion in specific measure criteria. This methodology causes the final contract scores to be either zero or a multiple of 20 (20, 40, 60, 80 or 100).

Since there is no variability in the final scores among contracts, the two other methods for assigning stars cannot be used. So the Beneficiary Access and Performance Problems measure has fixed star cut points. Those cut points are shown in Table 6.

Table 6: Fixed Cut Points

1 Star	2 Star	3 Star	4 Star	5 Star
≤ 20	40	60	80	100

Methodology for Calculating Stars at the Domain Level

A domain rating is the average, unweighted mean, of the domain's measure stars. To receive a domain rating, a contract must meet or exceed the minimum number of rated measures required for the domain. The minimum number of rated measures required for a domain is determined based on whether the total number of measures in the domain for a contract type is odd or even:

- If the total number of measures that comprise the domain for a contract type is odd, divide the number of measures in the domain by two and round the quotient to the next whole number.
 - Example: If the total number of measures required in a domain for a contract type is 3, the value 3 is divided by 2. The quotient, in this case 1.5, is then rounded to the next whole number. To receive a domain rating, the contract must have a Star Rating for at least 2 of the 3 required measures.
- If the total number of measures that comprise the domain for a contract type is even, divide the number of measures in the domain by two and add one to the quotient.
 - Example: If the total number of measures required in a domain for a contract type is 6, the value 6 is divided by 2. In this example, 1 is then added to the quotient of 3. To receive a domain rating, the contract must have a Star Rating for at least 4 of the 6 required measures.

Table 7 details the minimum number of rated measures required for a domain rating by contract type.

Table 7: Minimum Number of Rated Measures Required for a Domain Rating by Contract Type

Part	Domain Name (Identifier)	1876 Cost †	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
C	Staying Healthy: Screenings, Tests and Vaccines (HD1)	4 of 7	4 of 7	4 of 7	4 of 7	N/A	4 of 7
C	Managing Chronic (Long Term) Conditions (HD2)	5 of 9	6 of 10	8 of 14	6 of 10	N/A	6 of 10
C	Member Experience with Health Plan (HD3)	4 of 6	4 of 6	4 of 6	4 of 6	N/A	4 of 6
C	Member Complaints and Changes in the Health Plan's Performance (HD4)	3 of 4	3 of 4	3 of 4	3 of 4	N/A	3 of 4
C	Health Plan Customer Service (HD5)	2 of 2	2 of 3	2 of 3	2 of 3	N/A	2 of 3
D	Drug Plan Customer Service (DD1)	2 of 2*	2 of 3	2 of 3	N/A	2 of 3	2 of 3*
D	Member Complaints and Changes in the Drug Plan's Performance (DD2)	3 of 4*	3 of 4	3 of 4	N/A	3 of 4	3 of 4*
D	Member Experience with the Drug Plan (DD3)	2 of 2*	2 of 2	2 of 2	N/A	2 of 2	2 of 2*
D	Drug Safety and Accuracy of Drug Pricing (DD4)	3 of 5*	3 of 5	3 of 5	N/A	3 of 5	3 of 5*

* Note: Does not apply to MA-Only, 1876 Cost, and PFFS contracts which do not offer drug benefits.

† Note: 1876 Cost contracts which do not submit data for the MPF measure must have a rating in 3 out of 5 Drug Pricing and Patient Safety (DD4) measures to receive a rating in that domain.

Summary and Overall Ratings: Weighting of Measures

The summary and overall ratings are calculated as weighted averages of the measure stars. For the 2018 Star Ratings, CMS assigns the highest weight to the improvement measures, followed by the outcomes and intermediate outcomes measures, then by patient experience/complaints and access measures, and finally the process measures. New measures to the Star Ratings are given a weight of 1 for their first year in the ratings.

In subsequent years the weight associated with the measure weighting category is used. The weights assigned to each measure and their weighting category are shown in [Attachment G](#).

In calculating the summary and overall ratings, a measure given a weight of 3 counts three times as much as a measure given a weight of 1. Any measure without a rating is not included in the calculation. The first step in the calculation is to multiply each measure's weight by the measure's rating and summing these results. The second step is to divide this sum by the sum of the weights of the contract's rated measures. For the summary and overall ratings, half stars are assigned to allow for more variation across contracts.

Methodology for Calculating Part C and Part D Summary Ratings

The Part C and Part D summary ratings are calculated by taking a weighted average of the measure stars for Parts C and D, respectively. To receive a Part C and/or Part D summary rating, a contract must meet the minimum number of rated measures. The Parts C and D improvement measures are not included in the count of the minimum number of rated measures. The minimum number of rated measures required is determined as follows:

- If the total number of measures required for the organization type is odd, divide the number by two and round it to a whole number.
 - Example: if there are 13 required Part D measures for the organization, $13 / 2 = 6.5$, when rounded the result is 7. The contract needs at least 7 measures with ratings out of the 13 total measures to receive a Part D summary rating.
- If the total number of measures required for the organization type is even, divide the number of measures by two.
 - Example: if there are 30 required Part C measures for the organization, $30 / 2 = 15$. The contract needs at least 15 measures with ratings out of the 30 total measures to receive a Part C summary rating.

Table 8 shows the minimum number of rated measures required by each contract type to receive a summary rating.

Table 8: Minimum Number of Rated Measures Required for Part C and Part D Ratings by Contract Type

Rating	1876 Cost †	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
Part C summary	14 of 27	15 of 29	17 of 33	15 of 29	N/A	15 of 29
Part D summary	6 of 12*	7 of 13	7 of 13	N/A	7 of 13	7 of 13*

* Note: Does not apply to MA-Only, 1876 Cost, and PFFS contracts which do not offer drug benefits.

† Note: 1876 Cost contracts which do not submit data for the MPF measure must have ratings in 6 out of 12 measures to receive a Part D rating.

Methodology for Calculating the Overall MA-PD Rating

For MA-PDs to receive an overall rating, the contract must have stars assigned to both the Part C and Part D summary ratings. If an MA-PD contract has only one of the two required summary ratings, the overall rating will show as "Not enough data available."

The overall rating for a MA-PD contract is calculated using a weighted average of the Part C and Part D measure stars. The weights assigned to each measure are shown in [Attachment G](#).

There are a total of 48 measures (34 in Part C, 14 in Part D) in the 2018 Star Ratings. The following three measures are contained in both the Part C and D measure lists:

- Complaints about the Health/Drug Plan (CTM)
- Members Choosing to Leave the Plan (MCLP)
- Beneficiary Access and Performance Problems (BAPP)

These measures share the same data source, so CMS includes only one instance of each of these three measures in the calculation of the overall rating. In addition, the Part C and D improvement measures are not

included in the count for the minimum number of measures. Therefore, a total of 43 distinct measures are used in the calculation of the overall rating.

The minimum number of rated measures required for an overall MA-PD rating is determined using the same methodology as for the Part C and D summary ratings. Table 9 provides the minimum number of rated measures required for an overall Star Rating by contract type.

Table 9: Minimum Number of Rated Measures Required for an Overall Rating by Contract Type

Rating	1876 Cost †	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
Overall Rating	18 of 36*	20 of 39	22 of 43	N/A	N/A	20 of 39*

* Note: Does not apply to MA-Only, 1876 Cost, and PFFS contracts which do not offer drug benefits.

† Note: 1876 Cost contracts which do not submit data for the MPF measure must have ratings in 17 out of 34 measures to receive an overall rating.

Completing the Summary and Overall Rating Calculations

There are two adjustments made to the results of the summary and overall calculations described above. First, to reward consistently high performance, CMS utilizes both the mean and the variance of the measure stars to differentiate contracts for the summary and overall ratings. If a contract has both high and stable relative performance, a reward factor is added to the contract's ratings. Details about the reward factor can be found in the section entitled "Applying the Reward Factor." Second, for the 2018 Star Ratings, the summary and overall ratings include a Categorical Adjustment Index (CAI) factor, which is added to or subtracted from a contract's summary and overall ratings. Details about the CAI can be found in the section entitled "Categorical Adjustment Index (CAI)."

The summary and overall rating calculations are run twice, once including the improvement measures and once without including the improvement measures. Based on a comparison of the results of these two calculations a decision is made as to whether the improvement measures are to be included in calculating a contract's final summary and overall ratings. Details about the application of the improvement measures can be found in the section entitled "Applying the Improvement Measure(s)."

Lastly, rounding rules are applied to convert the results of the final summary and overall ratings calculations into the publicly reported Star Ratings. Details about the rounding rules are presented in the section "Rounding Rules for Summary and Overall Ratings."

Applying the Improvement Measure(s)

The Part C Improvement Measure - Health Plan Quality Improvement (C31) and the Part D Improvement Measure - Drug Plan Quality Improvement (D07) were introduced earlier in this document in the section entitled "Improvement Measures." The measures and formulas for the improvement measures can be found in [Attachment I](#). This section discusses whether and how to apply the improvement measures in calculating a contract's final summary and overall ratings.

Since high performing contracts have less room for improvement and consequently may have lower ratings on these measure(s), CMS has developed the following rules to not penalize contracts receiving 4 or more stars for their highest rating.

MA-PD Contracts

1. There are separate Part C and Part D improvement measures (C31 & D07) for MA-PD contracts.
 - a. C31 is used in calculating the Part C summary rating of an MA-PD contract.
 - b. D07 is used in calculating the Part D summary rating for an MA-PD contract.
 - c. Both improvement measures will be used when calculating the overall rating in step 3.
2. Calculate the overall rating for MA-PD contracts without including either improvement measure.
3. Calculate the overall rating for MA-PD contracts with both improvement measures included.

4. If an MA-PD contract in step 2 has 2 or fewer stars, use the overall rating calculated in step 2.
5. If an MA-PD contract in step 2 has 4 or more stars, compare the two overall ratings calculated in steps 2 & 3. If the rating in step 3 is less than the value in step 2, use the overall rating from step 2; otherwise use the result from step 3.
6. For all other MA-PD contracts, use the overall rating from step 3.

MA-Only Contracts

1. Only the Part C improvement measure (C31) is used for MA-Only contracts.
2. Calculate the Part C summary rating for MA-Only contracts without including the improvement measure.
3. Calculate the Part C summary rating for MA-Only contracts with the Part C improvement measure.
4. If an MA-Only contract in step 2 has 2 or fewer stars, use the Part C summary rating calculated in step 2.
5. If an MA-Only contract in step 2 has 4 or more stars, compare the two Part C summary ratings. If the rating in step 3 is less than the value in step 2, use the Part C summary rating from step 2; otherwise use the result from step 3.
6. For all other MA-Only contracts, use the Part C summary rating from step 3.

PDP Contracts

1. Only the Part D improvement measure (D07) is used for PDP contracts.
2. Calculate the Part D summary rating for PDP contracts without including the improvement measure.
3. Calculate the Part D summary rating for PDP contracts with the Part D improvement measure.
4. If a PDP contract in step 2 has 2 or fewer stars, use the Part D summary rating calculated in step 2.
5. If a PDP contract in step 2 has 4 or more stars, compare the two Part D summary ratings. If the rating in step 3 is less than the value in step 2, use the Part D summary rating from step 2; otherwise use the result from step 3.
6. For all other PDP contracts, use the Part D summary rating from step 3.

Applying the Reward Factor

The following represents the steps taken to calculate and include the reward factor in the Star Ratings summary and overall ratings. These calculations are performed both with and without the improvement measures included.

- Calculate the mean and the variance of all of the individual quality and performance measure stars at the contract level.
 - The mean is the summary or overall rating before the reward factor is applied, which is calculated as described in the section entitled “Weighting of Measures.”
 - Using weights in the variance calculation accounts for the relative importance of measures in the reward factor calculation. To incorporate the weights shown in [Attachment G](#) into the variance calculation of the available individual performance measures for a given contract, the steps are as follows:
 - Subtract the summary or overall star from each performance measure’s star; square the results; and multiply each squared result by the corresponding individual performance measure weight.
 - Sum these results; call this ‘SUMWX.’
 - Set n equal to the number of individual performance measures available for the given contract.
 - Set W equal to the sum of the weights assigned to the n individual performance measures available for the given contract.
 - The weighted variance for the given contract is calculated as: $n * SUMWX / (W * (n-1))$. For the complete formula, please see [Attachment H](#): Calculation of Weighted Star Rating and Variance Estimates.

- Categorize the variance into three categories:
 - low (0 to < 30th percentile),
 - medium ($\geq$ 30th to < 70th percentile) and
 - high ($\geq$ 70th percentile)
- Develop the reward factor as follows:
 - r-Factor = 0.4 (for contract w/ low variance & high mean (mean $\geq$ 85th percentile))
 - r-Factor = 0.3 (for contract w/ medium variance & high mean (mean $\geq$ 85th percentile))
 - r-Factor = 0.2 (for contract w/ low variance & relatively high mean (mean $\geq$ 65th & < 85th percentile))
 - r-Factor = 0.1 (for contract w/ medium variance & relatively high mean (mean $\geq$ 65th & < 85th percentile))
 - r-Factor = 0.0 (for all other contracts)

Tables 10 and 11 show the final threshold values used in reward factor calculations for the 2018 Star Ratings:

Table 10: Performance Summary Thresholds

Improvement	Percentile	Part C Rating	Part D Rating (MA-PD)	Part D Rating (PDP)	Overall Rating
with	65th	3.731481	4.075472	3.875000	3.775815
with	85th	3.990000	4.339623	4.172414	4.026363
without	65th	3.733333	4.130435	3.800000	3.807856
without	85th	4.000000	4.392857	4.228571	4.044949

Table 11: Variance Thresholds

Improvement	Percentile	Part C Rating	Part D Rating (MA-PD)	Part D Rating (PDP)	Overall Rating
with	30th	1.005087	.762846	.711166	.992406
with	70th	1.410086	1.317432	1.305773	1.363918
without	30th	1.019859	.761099	.671745	1.009195
without	70th	1.433202	1.316879	1.251772	1.385825

Categorical Adjustment Index (CAI)

CMS has implemented an interim analytical adjustment called the Categorical Adjustment Index (CAI) while measure stewards undertake a comprehensive review of their measures in the Star Ratings program and the Office of the Assistant Secretary for Planning and Evaluation (ASPE) continues its work under the IMPACT Act. The CAI is a factor that is added to or subtracted from a contract's Overall and/or Summary Star Ratings to adjust for the average within-contract disparity in performance associated with a contract's percentages of beneficiaries with Low Income Subsidy/Dual Eligible (LIS/DE) and disability status. These adjustments are performed both with and without the improvement measures included. The value of the CAI varies by a contract's percentages of beneficiaries with Low Income Subsidy/Dual Eligible (LIS/DE) and disability status.

The CAI was developed using data collected for the 2017 Star Ratings. To calculate the CAI, case-mix adjustment is applied to a subset of Star Rating measure scores using a beneficiary-level logistic regression model with contract fixed effects and beneficiary-level indicators of LIS/DE and disability status, similar to the approach currently used to adjust CAHPS patient experience measures. However, unlike CAHPS case mix adjustment, the only adjusters are LIS/DE and disability status. Adjusted measure scores are then converted to measure stars using the 2017 rating year measure cutoffs and used to calculate Adjusted Overall and Summary Star Ratings. Unadjusted Overall and Summary Star Ratings are also determined per contract.

The measures used in the 2018 CAI adjustment calculations are:

- C01 - Breast Cancer Screening
- C12 - Osteoporosis Management in Women who had a Fracture
- C15 - Diabetes Care – Blood Sugar Controlled
- D12 - Medication Adherence for Hypertension (RAS antagonists)
- D14 - MTM Program Completion Rate for CMR

To determine the value of the CAI, contracts are first divided into an initial set of categories based on the combination of a contract's LIS/DE and disability percentages. For the adjustment for the overall and summary ratings for MA-Only and MA-PD contracts, the initial groups are formed by the twelve groups of LIS/DE and quintiles of disability, thus resulting in 60 initial categories. For PDPs, the initial groups are formed using quartiles for both LIS/DE and disability. The mean differences between the Adjusted Overall or Summary Star Rating and the corresponding Unadjusted Star Rating for contracts in each initial category are determined and examined.

The initial categories are collapsed to form final adjustment groups using criteria developed for the method and detailed later within this document. The CAI values are the mean differences between the Adjusted Overall or Summary Star Rating and the corresponding Unadjusted Star Rating for contracts within each final adjustment group. Separate CAI values are computed for the overall and summary ratings, and the rating-specific CAI value would be the same for all contracts that fall within the same final adjustment category.

The categorization of contracts into final adjustment categories for the Categorical Adjustment Index (CAI) relies on both the use of a contract's percentages of LIS/DE and disabled beneficiaries. Puerto Rico has a unique health care market with a large percentage of low-income individuals in both Medicare and Medicaid and a complex legal history that affects the health care system in many ways. Puerto Rican beneficiaries are not eligible for LIS. Since the percentage of LIS/DE is a critical element in the categorization of contracts to identify the contract's CAI, an additional adjustment is done for contracts that solely serve the population of beneficiaries in Puerto Rico to address the lack of LIS. The additional analysis for the adjustment results in a modified percentage of LIS/DE beneficiaries that is subsequently used to categorize the contract in its final adjustment category for the CAI. Details regarding the methodology for the Puerto Rico model are provided in [Attachment O](#).

Tables 12 and 13 provide the range of the percentages that correspond to the LIS/DE initial groups and disability quintiles. For example, if a contract's percentage of LIS/DE beneficiaries is 13.60%, the contract's LIS/DE initial group would be L5. The upper limit for each initial category is only included for the highest categories (L12 and D5), and equals 100% for both of these categories.

Table 12: Categorization of Contract's Members into LIS/DE Initial Groups for the Overall Rating

LIS/DE Initial Group	% LIS/DE
L1	≥ 0.000000 to < 6.188617
L2	≥ 6.188617 to < 8.110160
L3	≥ 8.110160 to < 10.344828
L4	≥ 10.344828 to < 12.224661
L5	≥ 12.224661 to < 15.456919
L6	≥ 15.456919 to < 19.752043
L7	≥ 19.752043 to < 24.168883
L8	≥ 24.168883 to < 33.968268
L9	≥ 33.968268 to < 51.805150
L10	≥ 51.805150 to < 76.665433
L11	≥ 76.665433 to < 99.831252
L12	≥ 99.831252 to ≤ 100.000000

Table 13: Categorization of Contract's Members into Disability Quintiles for the Overall Rating

Disability Quintile	% Disabled
D1	≥ 0.000000 to < 15.160537
D2	≥ 15.160537 to < 19.602284
D3	≥ 19.602284 to < 26.769989
D4	≥ 26.769989 to < 38.698266
D5	≥ 38.698266 to ≤ 100.000000

Table 14 provides the description of each of the final adjustment categories and the associated value of the CAI per category for the overall rating.

Table 14: Final Adjustment Categories and CAI Values for the Overall Rating

Final Adjustment Category	LIS/DE Initial Group	Disability Quintile	CAI Value
A	L1 - L2	D1	-0.020980
B	L3 - L7 L1 - L2	D1 - D3 D2 - D3	-0.009289
C	L8 - L10	D1 - D3	0.001019
D	L1 - L9	D4 - D5	0.011701
E	L11 - L12 L10	D1 - D4 D4	0.037323
F	L10 - L11	D5	0.060366
G	L12	D5	0.085606

Tables 15 and 16 provide the range of the percentages that correspond to the LIS/DE initial groups and disability quintiles for the initial categories for the determination of the CAI values for the Part C summary.

Table 15: Categorization of Contract's Members into LIS/DE Initial Groups for the Part C Summary

LIS/DE Initial Group	% Members
L1	≥ 0.000000 to < 5.983054
L2	≥ 5.983054 to < 8.039216
L3	≥ 8.039216 to < 10.242867
L4	≥ 10.242867 to < 12.184512
L5	≥ 12.184512 to < 15.386761
L6	≥ 15.386761 to < 19.691642
L7	≥ 19.691642 to < 23.623793
L8	≥ 23.623793 to < 33.865945
L9	≥ 33.865945 to < 51.765486
L10	≥ 51.765486 to < 76.665433
L11	≥ 76.665433 to < 99.831252
L12	≥ 99.831252 to ≤ 100.000000

Table 16: Categorization of Contract's Members into Disability Quintiles for the Part C Summary

Disability Quintile	% Members
D1	≥ 0.000000 to < 14.987446
D2	≥ 14.987446 to < 19.397330
D3	≥ 19.397330 to < 26.688919
D4	≥ 26.688919 to < 38.496072
D5	≥ 38.496072 to ≤ 100.000000

Table 17 provides the description of each of the final adjustment categories for the Part C summary and the associated value of the CAI for each final adjustment category.

Table 17: Final Adjustment Categories and CAI Values for the Part C Summary

Final Adjustment Category	LIS/DE Initial Group	Disability Quintile	CAI Value
A	L1 - L2	D1	-0.034597
B	L3 - L5 L1 - L2 L3	D1 - D2 D2 - D3 D3	-0.008463
C	L6 - L12 L6 - L9 L4 - L9 L1 - L9	D1 D2 D3 D4 - D5	0.000971
D	L10 - L11 L12	D2 - D5 D2	0.038593
E	L12	D3 - D5	0.060840

Tables 18 and 19 provide the range of the percentages that correspond to the LIS/DE initial groups and the disability quintiles for the initial categories for the determination of the CAI values for the Part D summary rating for MA-PDs.

Table 18: Categorization of Contract's Members into LIS/DE Initial Groups for the MA-PD Part D Summary

LIS/DE Initial Group	% Members
L1	≥ 0.000000 to < 6.188617
L2	≥ 6.188617 to < 8.189398
L3	≥ 8.189398 to < 10.554205
L4	≥ 10.554205 to < 13.047285
L5	≥ 13.047285 to < 15.695174
L6	≥ 15.695174 to < 20.120593
L7	≥ 20.120593 to < 25.628787
L8	≥ 25.628787 to < 37.247228
L9	≥ 37.247228 to < 57.692308
L10	≥ 57.692308 to < 83.018448
L11	≥ 83.018448 to < 99.905110
L12	≥ 99.905110 to ≤ 100.000000

Table 19: Categorization of Contract's Members into Disability Quintiles for the MA-PD Part D Summary

Disability Quintile	% Members
D1	≥ 0.000000 to < 15.274769
D2	≥ 15.274769 to < 20.230934
D3	≥ 20.230934 to < 27.548509
D4	≥ 27.548509 to < 40.446927
D5	≥ 40.446927 to ≤ 100.000000

Table 20 provides the description of each of the final adjustment categories for the MA-PD Part D summary and the associated values of the CAI for each final adjustment category.

Table 20: Final Adjustment Categories and CAI Values for the MA-PD Part D Summary

CAI Category	LIS/DE Initial Group	Disability Quintiles	CAI Value
A	L1 – L2 L3 – L4	D1 – D3 D1 – D2	-0.013576
B	L5 – L9 L3 – L4	D1 – D3 D3	-0.002877
C	L1 – L7 L8	D4 – D5 D4	0.007977
D	L10 – L12 L9 – L11	D1 – D3 D4	0.037128
E	L8 – L9	D5	0.048750
F	L10	D5	0.080788
G	L11	D5	0.104590
H	L12	D4 – D5	0.123372

Tables 21 and 22 provide the range of the percentages that correspond to the LIS/DE and disability quartiles for the initial categories for the determination of the CAI values for the PDP Part D summary. Quartiles are used for both dimensions due to the limited number of PDPs as compared to MA-PD contracts.

Table 21: Categorization of Contract's Members into Quartiles of LIS/DE for the PDP Part D Summary

LIS/DE Quartile	% Members
L1	≥ 0.000000 to < 1.861410
L2	≥ 1.861410 to < 6.885402
L3	≥ 6.885402 to < 29.506059
L4	≥ 29.506059 to ≤ 100.000000

Table 22: Categorization of Contract's Members into Quartiles of Disability for the PDP Part D Summary

LIS/DE Quartile	% Members
D1	≥ 0.000000 to < 8.159247
D2	≥ 8.159247 to < 14.153052
D3	≥ 14.153052 to < 30.526888
D4	≥ 30.526888 to ≤ 100.000000

Table 23 provides the description of each of the final adjustment categories for the PDP Part D summary and the associated value of the CAI per final adjustment category. Please note that the CAI values for the PDP Part D summary are different from the CAI values for the MA-PD Part D summary. Categories were chosen to enforce monotonicity and to yield a minimum of 10 contracts per final adjustment category. There are three final adjustment categories for the PDP Part D summary.

Table 23: Final Adjustment Categories and CAI Values for the PDP Part D Summary

Final Adjustment Category	LIS/DE Quartiles	Disability Quartiles	CAI Value
A	L1	D1	-0.157338
B	L2 - L4 L1	D1 - D2 D2	-0.108075
C	L1 - L3 L4	D3 – D4 D3	-0.019559
D	L4	D4	0.098544

Calculation Precision

CMS and its contractors have always used software called SAS (an integrated system of software products provided by SAS Institute Inc.) to perform the calculations used in the Star Ratings. For all measures, except the

improvement measures, the precision used in scoring the measure is indicated next to the label “Data Display” within the detailed description of each measure. The improvement measures are discussed below. The domain ratings are the unweighted average of the star measures and are rounded to the nearest integer.

The improvement measures, summary and overall ratings are calculated with at least six digits of precision after the decimal whenever the data allow it. With the exception of the Plan All-Cause Readmission measure, the HEDIS measure scores have two digits of precision after the decimal. All other measures have at least six digits of precision when used in the improvement calculation.

In the second HPMS plan preview, we display six digits after the decimal in the summary and overall calculation results. In previous years, we displayed fewer digits after the decimal, but there were instances where these artificially rounded values made it appear that the results had achieved a boundary when they actually had not. There may still be instances where displaying six digits will appear to be at a boundary. If this situation occurs, contact the ratings mailbox which can provide a contract-specific calculation spreadsheet which emulates the actual SAS calculations.

It is not possible to replicate CMS’ calculations exactly due to factors including, but not limited to: using published measure data from sources other than CMS’ Star Rating program which use different rounding rules; and CMS excluding some contracts’ ratings from publicly-posted data (e.g., terminated contracts).

Rounding Rules for Measure Scores

Measure scores are rounded to the precision indicated next to the label “Data Display” within the detailed description of each measure. Measure scores are rounded using standard round to nearest rules prior to cut point analysis. Measure scores that end in 0.49 (0.049, 0.0049) or less are rounded down and measure scores that end in 0.50 (0.050, 0.0050) or more are rounded up. For example, a measure listed with a Data Display of “Percentage with no decimal point” that has a value of 83.49 rounds down to 83, while a value of 83.50 rounds up to 84.

Rounding Rules for Summary and Overall Ratings

The results of the summary and overall calculations are rounded to the nearest half star (i.e., 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0) using consistent rounding rules. Table 24 summarizes the rounding rules for converting the Part C and D summary and overall ratings into the publicly reported Star Ratings.

Table 24: Rounding Rules for Summary and Overall Ratings

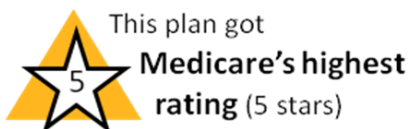
Raw Summary / Overall Score	Final Summary / Overall Rating
≥ 0.000 and < 0.250	0
≥ 0.250 and < 0.750	0.5
≥ 0.750 and < 1.250	1.0
≥ 1.250 and < 1.750	1.5
≥ 1.750 and < 2.250	2.0
≥ 2.250 and < 2.750	2.5
≥ 2.750 and < 3.250	3.0
≥ 3.250 and < 3.750	3.5
≥ 3.750 and < 4.250	4.0
≥ 4.250 and < 4.750	4.5
≥ 4.750	5.0

For example, a summary or overall rating of 3.749 rounds down to a rating of 3.5, and a rating of 3.751 rounds up to rating of 4.

Methodology for Calculating the High Performing Icon

A contract may receive a high performing icon as a result of its performance on the Parts C and D measures. The high performing icon is assigned to an MA-Only contract for achieving a 5-star Part C summary rating, a PDP contract for a 5-star Part D summary rating, and an MA-PD contract for a 5-star overall rating. Figure 3 shows the high performing icon used in the MPF:

Figure 3: The High Performing Icon



Methodology for Calculating the Low Performing Icon

A contract can receive a low performing icon as a result of its performance on the Part C and/or Part D summary ratings. The low performing icon is calculated by evaluating the Part C and Part D summary ratings for the current year and the past two years (i.e., the 2016, 2017, and 2018 Star Ratings). If the contract had any combination of Part C and/or Part D summary ratings of 2.5 or lower in all three years of data, it is marked with a low performing icon (LPI). A contract must have a rating in either Part C and/or Part D for all three years to be considered for this icon.

Figure 4 shows the low performing contract icon used in the MPF:

Figure 4: The Low Performing Icon



Table 25 shows example contracts which would receive an LPI.

Table 25: Example LPI Contracts

Contract/Rating	Rated As	2016 C	2017 C	2018 C	2016 D	2017 D	2018 D	LPI Awarded	LPI Reason
HAAAA	MA-PD	2	2.5	2.5	3	3	3	Yes	Part C
HBBBB	MA-PD	3	3	3	2.5	2	2.5	Yes	Part D
HCCCC	MA-PD	2.5	3	3	3	2.5	2.5	Yes	Part C or D
HDDDD	MA-PD	3	2.5	3	2.5	3	2.5	Yes	Part C or D
HEEEE	MA-PD	2.5	2	2.5	2	2.5	2.5	Yes	Part C and D
HFFFF	MA-Only	2.5	2	2.5	-	-	-	Yes	Part C
SAAAA	PDP	-	-	-	2.5	2.5	2	Yes	Part D

Mergers, Novations, and Consolidations

This section covers how the Star Ratings are affected by mergers, novation and consolidations. To ensure a common understanding, we begin by defining each of the terms.

1. **Merger:** when two (or more) companies join together to become a single business. Each of these separate businesses had one or more contracts with CMS for offering health and/or drug services to Medicare beneficiaries. After the merger, all of those individual contracts with CMS are still intact, only the ownership changes in each of the contracts to the name of the new single business. Mergers can occur at any time during a contract year.
2. **Novation:** when one company acquires another company. Each of these separate businesses had one or more contracts with CMS for offering health and/or drug services to beneficiaries. After the novation, all of those individual contracts with CMS are still intact. The owner's names of the contracts acquired are changed to the new owner's name. Novations can occur at any time during the contract year.

3. Consolidation: when an organization/sponsor that has at least two contracts with CMS for offering health and/or drug services to beneficiaries combines multiple contracts into a single contract with CMS. Consolidations occur only at the change of the contract year. The one or more contracts that will no longer exist at contract year's end; these are known as the consumed contracts. The contract that will still exist is known as the surviving contract and all of the beneficiaries still enrolled in the consumed contract(s) are moved to the surviving contract.

None of these types of change the ratings earned by an individual contract in any way.

For a merger or novation, the only change is the company listed as owning the contract; there is no change in contract structure, so the Star Ratings earned by the contract remains with them until the next rating cycle. This includes any High Performer or Low Performing icons earned by any of the contracts.

Consolidations become effective the first day of the calendar year. The Star Ratings are released the previous October so they are available when open enrollment begins. Each of the consumed contracts and the surviving contract will earn its own individual Star Ratings. The Star Ratings for the consumed contracts will be shared with the owning organization in the HPMS previews but will not be released publicly and are not included in determining Quality Bonus Payment (QBP) ratings. The ratings for the consumed contracts will only be used in the Past Performance Analysis performed by CMS. The surviving contract's ratings are posted publicly, used in determining QBP ratings, and included in the Past Performance Analysis.

Reliability Requirement for Low-enrollment Contracts

HEDIS measures for contracts whose enrollment as of July 2016 was at least 500 but less than 1,000 will be included in the Star Ratings in 2018 when the contract-specific measure score reliability is equal to or greater than 0.7. The reliability calculations are implemented using SAS PROC MIXED as documented on pages 31-32 of the report "The Reliability of Provider Profiling – A Tutorial," available at <http://www.ncqa.org/HEDISQualityMeasurement/Research.aspx>.

Special Needs Plan (SNP) Data

CMS has included four SNP-specific measures in the 2018 Star Ratings. The Part C 'Special Needs Plan Care Management' measure is based on data reported by contracts through the Medicare Part C Reporting Requirements. The three Part C 'Care for Older Adults' measures are based on HEDIS data. The data for all of these measures are reported at the plan benefit package (PBP) level, while the Star Ratings are reported at the contract level.

The methodology used to combine the PBP data to the contract level is different between the two data sources. The Part C Reporting Requirements data are summed into a contract-level rate after excluding PBPs that do not map to any PBP offered by the contract in the calendar year for which the Reporting Requirements data underwent data validation. The HEDIS data are summed into a contract-level rate as long as the contract will be offering a SNP PBP in the Star Ratings year.

The two methodologies used to combine the PBP data within a contract for these measures are described further in [Attachment E](#).

Star Ratings and Marketing

Plan sponsors must ensure the Star Ratings document and all marketing of Star Ratings information is compliant with CMS' Medicare Marketing Guidelines. Failure to follow CMS' guidance may result in compliance actions against the contract. The Medicare Marketing Guidelines were issued as Chapters 2 and 3 of the Prescription Drug Benefit Manual and the Medicare Managed Care Manual, respectively. Please direct questions about marketing Star Ratings information to your Account Manager.

Contact Information

The contact below can assist you with various aspects of the Star Ratings.

- Part C & D Star Ratings: PartCandDStarRatings@cms.hhs.gov

If you have questions or require information about the specific subject areas associated with the Star Ratings please write to those contacts directly and cc the Part C & D Star Ratings mailbox.

- CAHPS (MA & Part D): MP-CAHPS@cms.hhs.gov
- Call Center Monitoring: CallCenterMonitoring@cms.hhs.gov
- Compliance Activity Module issues (Part C): PartCCompliance@cms.hhs.gov
- Compliance Activity Module issues (Part D): PartD_Monitoring@cms.hhs.gov
- Data Integrity: PARTCDQA@cms.hhs.gov
- Demonstration (Medicare-Medicaid Plan) Ratings: mmcocapsmodel@cms.hhs.gov
- Disenrollment Reasons Survey: DisenrollSurvey@cms.hhs.gov
- HEDIS: HEDISquestions@cms.hhs.gov
- HOS: HOS@cms.hhs.gov
- HPMS Access issues: CMSHPMS_Access@cms.hhs.gov
- HPMS Help Desk (all other HPMS issues): HPMS@cms.hhs.gov
- Marketing: marketing@cms.hhs.gov
- Part C Compliance Activity issues: PartCCompliance@cms.hhs.gov
- Part D Compliance Activity issues: PartD_Monitoring@cms.hhs.gov
- Plan Reporting (Part C): Partcplanreporting@cms.hhs.gov
- Plan Reporting (Part D): Partd-planreporting@cms.hhs.gov
- Plan Reporting Data Validation (Part C & D): PartCandD_Data_Validation@cms.hhs.gov
- QBP Ratings and Appeals questions: QBPAppeals@cms.hhs.gov
- QBP Payment or Risk Analysis questions: riskadjustment@cms.hhs.gov

Framework and Definitions for the Domain and Measure Details Section

This page contains the formatting framework and definition of each sub-section that is used to describe the domain and measure details on the following pages.

Domain: The name of the domain to which the measures following this heading belong

Measure: The measure ID and common name of the ratings measure

Title	Description
Label for Stars:	The label that appears with the stars for this measure on Medicare.gov.
Label for Data:	The label that appears with the numeric data for this measure on Medicare.gov.
Description:	The English language description shown for the measure on the Medicare.gov. The text in this sub-section has been cognitively tested with beneficiaries to aid in their understanding the purpose of the measure.
HEDIS Label:	Optional – contains the full NCQA HEDIS measure name.
Measure Reference:	Optional – this sub-section contains the location of the detailed measure specification in the NCQA documentation for all HEDIS and HEDIS/HOS measures.
Metric:	Defines how the measure is calculated.
Primary Data Source:	The primary source of the data used in the measure.
Data Source Description:	Optional – contains information about additional data sources needed for calculating the measure.
Data Source Category:	The category of this data source.
Exclusions:	Optional – lists any exclusions applied to the data used for the measure.
General Notes:	Optional – contains additional information about the measure and the data used.
Data Time Frame:	The time frame of data used from the data source. In some HEDIS measures this date range may appear to conflict with the specific data time frame defined in the NCQA Technical Specifications. In those cases, the data used by CMS is unchanged from what was submitted to NCQA. CMS uses the data time frame of the overall HEDIS submission which is the HEDIS measurement year.
General Trend:	Indicates whether high values are better or low values are better for the measure.
Statistical Method:	The methodology used for assigning stars in this measure; see the section entitled “Methodology for Assigning Part C and Part D Measure Star Ratings” for an explanation of each of the possible entries in this sub-section.
Improvement Measure:	Indicates whether this measure is included in the improvement measure.
CAI Usage:	Indicates if the measure is used in the Categorical Adjustment Index calculation.
Case Mix Adjusted:	Indicates if the data are case mix adjusted prior to being used for the Star Ratings.
Weighting Category:	The weighting category of this measure.
Weighting Value:	The numeric weight for this measure in the summary and overall rating calculations.
CMS Framework Area:	Contains the area where this measure fits into the CMS Quality Framework.
NQF #:	The National Quality Framework (NQF) number for the measure or “None” if there is no equivalent measure with NQF endorsement.
Data Display:	The format used to the display the numeric data on Medicare.gov
Reporting Requirements:	Table indicating which organization types are required to report the measure. “Yes” for organizations required to report; “No” for organizations not required to report.
Cut Points:	Table containing the cut points used in the measure. For CAHPS measures, the table contains the Base Group Cut Points which are used prior to the final star assignment rules being applied.

Part C Domain and Measure Details

See [Attachment C](#) for the national averages of individual Part C measures.

Domain: 1 - Staying Healthy: Screenings, Tests and Vaccines

Measure: C01 - Breast Cancer Screening

Title	Description
Label for Stars: Breast Cancer Screening	
Label for Data: Breast Cancer Screening	
Description: Percent of female plan members aged 52-74 who had a mammogram during the past 2 years.	
HEDIS Label: Breast Cancer Screening (BCS)	
Measure Reference: NCQA HEDIS 2017 Technical Specifications Volume 2, page 74	
Metric: The percentage of women MA enrollees 50 to 74 years of age (denominator) who had a mammogram to screen for breast cancer (numerator).	
Primary Data Source: HEDIS	
Data Source Category: Health and Drug Plans	
Exclusions: (optional) Bilateral mastectomy any time during the member's history through December 31 of the measurement year. Any of the following meet criteria for bilateral mastectomy:	
• Bilateral mastectomy (Bilateral Mastectomy Value Set). • Unilateral mastectomy (Unilateral Mastectomy Value Set) with a bilateral modifier (Bilateral Modifier Value Set). • Two unilateral mastectomies (Unilateral Mastectomy Value Set) with service dates 14 days or more apart. For example, if the service date for the first unilateral mastectomy was February 1 of the measurement year, the service date for the second unilateral mastectomy must be on or after February 15. • Both of the following (on the same or a different date of service): – Unilateral mastectomy (Unilateral Mastectomy Value Set) with a right-side modifier (Right Modifier Value Set) (same date of service). – Unilateral mastectomy (Unilateral Mastectomy Value Set) with a left-side modifier (Left Modifier Value Set) (same date of service). • Absence of the left breast (Absence of Left Breast Value Set) and absence of the right breast (Absence of Right Breast Value Set) on the same or different date of service. • History of bilateral mastectomy (History of Bilateral Mastectomy Value Set). • Left unilateral mastectomy (Unilateral Mastectomy Left Value Set) and right unilateral mastectomy (Unilateral Mastectomy Right Value Set) on the same or different date of service.	
Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.	
Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.	
Data Time Frame: 01/01/2016 – 12/31/2016	
General Trend: Higher is better	
Statistical Method: Clustering	
Improvement Measure: Included	
CAI Usage: Included	

Title	Description				
Case-mix adjusted:	No				
Weighting Category:	Process Measure				
Weighting Value:	1				
CMS Framework Area:	Clinical care				
NQF #:	0031				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 56%	≥ 56% to < 70%	≥ 70% to < 78%	≥ 78% to < 84%	≥ 84%

Measure: C02 - Colorectal Cancer Screening

Title	Description
Label for Stars:	Colorectal Cancer Screening
Label for Data:	Colorectal Cancer Screening
Description:	Percent of plan members aged 50-75 who had appropriate screening for colon cancer.
HEDIS Label:	Colorectal Cancer Screening (COL)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 80
Metric:	The percentage of MA enrollees aged 50 to 75 (denominator) who had appropriate screenings for colorectal cancer (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) Refer to Administrative Specification for exclusion criteria. Exclusionary evidence in the medical record must include a note indicating colorectal cancer or total colectomy any time during the member's history through December 31 of the measurement year.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Included
Case-mix adjusted:	No
Weighting Category:	Process Measure
Weighting Value:	1
CMS Framework Area:	Clinical care
NQF #:	0034
Data Display:	Percentage with no decimal place

Title	Description					
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	
	< 54%	≥ 54% to < 63%	≥ 63% to < 72%	≥ 72% to < 80%	≥ 80%	

Measure: C03 - Annual Flu Vaccine

Title	Description
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Label for Stars: Annual Flu Vaccine

Label for Data: Annual Flu Vaccine

Description: Percent of plan members who got a vaccine (flu shot) prior to flu season.

Metric: The percentage of sampled Medicare enrollees (denominator) who received an influenza vaccination during the measurement year (numerator).

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Question (question number varies depending on survey type):

- Have you had a flu shot since July 1, 2016?

Data Source Category: Survey of Enrollees

General Notes: This measure is not case-mix adjusted.

CAHPS Survey results were sent to each contract's Medicare Compliance Officer in early August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: 0040

Data Display: Numeric with no decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Base Group Cut Points:	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	< 64	≥ 64 to < 68	≥ 68 to < 74	≥ 74 to < 77	≥ 77

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: C04 - Improving or Maintaining Physical Health

Title	Description
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Label for Stars: Improving or Maintaining Physical Health

Label for Data: Improving or Maintaining Physical Health

Description: Percent of all plan members whose physical health was the same or better than expected after two years.

Metric: The percentage of sampled Medicare enrollees 65 years of age or older (denominator) whose physical health status was the same or better than expected (numerator).

Primary Data Source: HOS

Data Source Description: 2014-2016 Cohort 17 Performance Measurement Results (2014 Baseline data collection, 2016 Follow-up data collection)

2-year PCS change – Questions: 1, 2a-b, 3a-b & 5

Data Source Category: Survey of Enrollees

Exclusions: Contracts with less than 30 responses are suppressed.

Data Time Frame: 04/18/2016 – 07/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Outcome Measure

Weighting Value: 3

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: Not Applicable

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 63%	≥ 63% to < 67%	≥ 67% to < 69%	≥ 69% to < 72%	≥ 72%

Measure: C05 - Improving or Maintaining Mental Health

Title	Description
-------	-------------

Label for Stars: Improving or Maintaining Mental Health

Label for Data: Improving or Maintaining Mental Health

Description: Percent of all plan members whose mental health was the same or better than expected after two years.

Metric: The percentage of sampled Medicare enrollees 65 years of age or older (denominator) whose mental health status was the same or better than expected (numerator).

Primary Data Source: HOS

Data Source Description: 2014-2016 Cohort 17 Performance Measurement Results (2014 Baseline data collection, 2016 Follow-up data collection)

2-year MCS change – Questions: 4a-b, 6a-c & 7

Data Source Category: Survey of Enrollees

Exclusions: Contracts with less than 30 responses are suppressed.

Data Time Frame: 04/18/2016 – 07/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Outcome Measure

Weighting Value: 3

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: Not Applicable

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 75%	≥ 75% to < 82%	≥ 82% to < 84%	≥ 84% to < 88%	≥ 88%

Measure: C06 - Monitoring Physical Activity

Title	Description
-------	-------------

Label for Stars: Monitoring Physical Activity

Label for Data: Monitoring Physical Activity

Description: Percent of senior plan members who discussed exercise with their doctor and were advised to start, increase, or maintain their physical activity during the year.

HEDIS Label: Physical Activity in Older Adults (PAO)

Measure Reference: NCQA HEDIS 2016 Specifications for The Medicare Health Outcomes Survey Volume 6, page 34

Metric: The percentage of sampled Medicare members 65 years of age or older (denominator) who had a doctor's visit in the past 12 months and who received advice to start, increase or maintain their level exercise or physical activity (numerator).

Primary Data Source: HEDIS / HOS

Data Source Description: Cohort 17 Follow-up Data collection (2016) and Cohort 19 Baseline data collection (2016).

HOS Survey Question 46: In the past 12 months, did you talk with a doctor or other health provider about your level of exercise of physical activity? For example, a doctor or other health provider may ask if you exercise regularly or take part in physical exercise.

HOS Survey Question 47: In the past 12 months, did a doctor or other health care provider advise you to start, increase or maintain your level of exercise or physical activity? For example, in order to improve your health, your doctor or other health provider may advise you to start taking the stairs, increase walking from 10 to 20 minutes every day or to maintain your current exercise program.

Data Source Category: Survey of Enrollees

Exclusions: Members who responded "I had no visits in the past 12 months" to Question 46 are excluded from results calculations for Question 47. Contracts must achieve a denominator of at least 100 to obtain a reportable result. If the denominator is less than 100, the measure result will be "Not enough data available."

Data Time Frame: 04/18/2016 – 07/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: 0029

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 46%	≥ 46% to < 50%	≥ 50% to < 53%	≥ 53% to < 58%	≥ 58%

Measure: C07 - Adult BMI Assessment

Title	Description
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Label for Stars: Checking to See if Members Are at a Healthy Weight

Label for Data: Checking to See if Members Are at a Healthy Weight

Description: Percent of plan members with an outpatient visit who had their "Body Mass Index" (BMI) calculated from their height and weight and recorded in their medical records.

HEDIS Label: Adult BMI Assessment (ABA)

Measure Reference: NCQA HEDIS 2017 Technical Specifications Volume 2, page 54

Metric: The percentage of MA enrollees 18-74 years of age (denominator) who had an outpatient visit and whose body mass index (BMI) was documented during the measurement year or the year prior the measurement year (numerator).

Primary Data Source: HEDIS

Data Source Category: Health and Drug Plans

Exclusions: (optional) Members who have a diagnosis of pregnancy (Pregnancy Value Set) during the measurement year or the year prior to the measurement year.

Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.

Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: 0421

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 72%	≥ 72% to < 81%	≥ 81% to < 94%	≥ 94% to < 98%	≥ 98%

Domain: 2 - Managing Chronic (Long Term) Conditions

Measure: C08 - Special Needs Plan (SNP) Care Management

Title	Description
Label for Stars:	Members Whose Plan Did an Assessment of Their Health Needs and Risks
Label for Data:	Members Whose Plan Did an Assessment of Their Health Needs and Risks
Description:	Percent of members whose plan did an assessment of their health needs and risks in the past year. The results of this review are used to help the member get the care they need. (Medicare collects this information only from Medicare Special Needs Plans. Medicare does not collect this information from other types of plans. These plans are a type of Medicare Advantage Plan designed for certain types of people with Medicare. Some Special Needs Plans are for people with certain chronic diseases and conditions, some are for people who have both Medicare and Medicaid, and some are for people who live in an institution such as a nursing home.)
Metric:	This measure is defined as the percent of eligible Special Needs Plan (SNP) enrollees who received a health risk assessment (HRA) during the measurement year. The denominator for this measure is the sum of the number of new enrollees (Element 13.1) and the number of enrollees eligible for an annual HRA (Element 13.2). The numerator for this measure is the sum of the number of initial HRAs performed on new enrollees (Element 13.3) and the number of annual reassessments performed (Element 13.6). The equation for calculating the SNP Care Management Assessment Rate is: $\frac{[\text{Number of initial HRAs performed on new enrollees (Element 13.3)} + \text{Number of annual reassessments performed (Element 13.6)}]}{[\text{Number of new enrollees (Element 13.1)} + \text{Number of enrollees eligible for an annual HRA (Element 13.2)}]}$
Primary Data Source:	Part C Plan Reporting
Data Source Description:	Data were reported by contracts to CMS per the Part C Reporting Requirements. Validation of these data was performed during the 2017 Data Validation cycle.
Data Source Category:	Health and Drug Plans
Exclusions:	Contracts and PBPs with an effective termination date on or before the deadline to submit data validation results to CMS (June 30, 2017) are excluded and listed as “No data available.”
	SNP Care Management Assessment Rates are not provided for contracts that did not score at least 95% on data validation for the SNP Care Management reporting section or were not compliant with data validation standards/sub-standards for any the following SNP Care Management data elements: • Number of new enrollees (Element 13.1) • Number of enrollees eligible for an annual HRA (Element 13.2) • Number of initial HRAs performed on new enrollees (Element 13.3) • Number of annual reassessments performed (Element 13.6)
	Contracts can view their data validation results in HPMS (https://hpms.cms.gov/). From the home page, select Monitoring Plan Reporting Data Validation. If you cannot see the Plan Reporting Data Validation module, contact CMSHPMS_Access@cms.hhs.gov.
	Contracts excluded from the SNP Care Management Assessment Rates due to data validation issues are shown as “CMS identified issues with this plan’s data.”

Title	Description												
	Additionally, contracts must have 30 or more enrollees in the denominator [Number of new enrollees (Element 13.1) + Number of enrollees eligible for an annual HRA (Element 13.2) ≥ 30] in order to have a calculated rate. Contracts with fewer than 30 eligible enrollees are listed as "No data available."												
General Notes:	More information about the data used to calculate this measure can be found in Attachment E .												
	The 2016 Part C reporting requirement fields listed below are not used in calculating this measure: 13.4 Number of initial HRA refusals 13.5 Number of initial HRAs where SNP is unable to reach new enrollees 13.7 Number of annual reassessment refusals 13.8 Number of annual reassessments where SNP is unable to reach enrollee												
Data Time Frame:	01/01/2016 – 12/31/2016												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Process Measure												
Weighting Value:	1												
CMS Framework Area:	Clinical care												
NQF #:	Not Applicable												
Data Display:	Percentage with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>No</td><td>No</td><td>Yes</td><td>No</td><td>No</td><td>No</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	No	No	Yes	No	No	No
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
No	No	Yes	No	No	No								
Cut Points:	<table><tr><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>< 35%</td><td>≥ 35% to < 54%</td><td>≥ 54% to < 71%</td><td>≥ 71% to < 92%</td><td>≥ 92%</td></tr></table>	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	< 35%	≥ 35% to < 54%	≥ 54% to < 71%	≥ 71% to < 92%	≥ 92%		
1 Star	2 Stars	3 Stars	4 Stars	5 Stars									
< 35%	≥ 35% to < 54%	≥ 54% to < 71%	≥ 71% to < 92%	≥ 92%									

Measure: C09 - Care for Older Adults – Medication Review

Title	Description
Label for Stars:	Yearly Review of All Medications and Supplements Being Taken
Label for Data:	Yearly Review of All Medications and Supplements Being Taken
Description:	Percent of plan members whose doctor or clinical pharmacist has reviewed a list of everything they take (prescription and non-prescription drugs, vitamins, herbal remedies, other supplements) at least once a year. (This information about a yearly review of medications is collected for Medicare Special Needs Plans only. These plans are a type of Medicare Advantage Plan designed for certain types of people with Medicare. Some Special Needs Plans are for people with certain chronic diseases and conditions, some are for people who have both Medicare and Medicaid, and some are for people who live in an institution such as a nursing home.)
HEDIS Label:	Care for Older Adults (COA) – Medication Review
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 86

Title	Description
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Metric: The percentage of Medicare Advantage Special Needs Plan enrollees 66 years and older (denominator) who received at least one medication review (Medication Review Value Set) conducted by a prescribing practitioner or clinical pharmacist during the measurement year and the presence of a medication list in the medical record (Medication List Value Set) (numerator).

Primary Data Source: HEDIS

Data Source Category: Health and Drug Plans

Exclusions: SNP benefit packages whose enrollment was less than 30 as of February 2016 SNP Comprehensive Report were excluded from this measure.

General Notes: The formula used to calculate this measure can be found in [Attachment E](#).

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: 0553

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	No	No	Yes	No	No	No

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 59%	≥ 59% to < 79%	≥ 79% to < 88%	≥ 88% to < 93%	≥ 93%

Measure: C10 - Care for Older Adults – Functional Status Assessment

Title	Description
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Label for Stars: Yearly Assessment of How Well Plan Members Are Able to Do Activities of Daily Living

Label for Data: Yearly Assessment of How Well Plan Members Are Able to Do Activities of Daily Living

Description: Percent of plan members whose doctor has done a functional status assessment to see how well they are able to do “activities of daily living” (such as dressing, eating, and bathing).

(This information about the yearly assessment is collected for Medicare Special Needs Plans only. These plans are a type of Medicare Advantage Plan designed for certain types of people with Medicare. Some Special Needs Plans are for people with certain chronic diseases and conditions, some are for people who have both Medicare and Medicaid, and some are for people who live in an institution such as a nursing home.)

HEDIS Label: Care for Older Adults (COA) – Functional Status Assessment

Measure Reference: NCQA HEDIS 2017 Technical Specifications Volume 2, page 86

Metric: The percentage of Medicare Advantage Special Needs Plan enrollees 66 years and older (denominator) who received at least one functional status assessment (Functional Status Assessment Value Set) during the measurement year (numerator).

Primary Data Source: HEDIS

Title	Description												
Data Source Category:	Health and Drug Plans												
Exclusions:	SNP benefit packages whose enrollment was less than 30 as of February 2016 SNP Comprehensive Report were excluded from this measure.												
General Notes:	The formula used to calculate this measure can be found in Attachment E .												
Data Time Frame:	01/01/2016 – 12/31/2016												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Process Measure												
Weighting Value:	1												
CMS Framework Area:	Clinical care												
NQF #:	Not Applicable												
Data Display:	Percentage with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>No</td><td>No</td><td>Yes</td><td>No</td><td>No</td><td>No</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	No	No	Yes	No	No	No
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
No	No	Yes	No	No	No								
Cut Points:	<table><tr><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>< 46%</td><td>≥ 46% to < 67%</td><td>≥ 67% to < 78%</td><td>≥ 78% to < 92%</td><td>≥ 92%</td></tr></table>	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	< 46%	≥ 46% to < 67%	≥ 67% to < 78%	≥ 78% to < 92%	≥ 92%		
1 Star	2 Stars	3 Stars	4 Stars	5 Stars									
< 46%	≥ 46% to < 67%	≥ 67% to < 78%	≥ 78% to < 92%	≥ 92%									

Measure: C11 - Care for Older Adults – Pain Assessment

Title	Description
Label for Stars:	Yearly Pain Screening or Pain Management Plan
Label for Data:	Yearly Pain Screening or Pain Management Plan
Description:	Percent of plan members who had a pain screening or pain management plan at least once during the year. (This information about pain screening or pain management is collected for Medicare Special Needs Plans only. These plans are a type of Medicare Advantage Plan designed for certain types of people with Medicare. Some Special Needs Plans are for people with certain chronic diseases and conditions, some are for people who have both Medicare and Medicaid, and some are for people who live in an institution such as a nursing home.)
HEDIS Label:	Care for Older Adults (COA) – Pain Screening
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 86
Metric:	The percentage of Medicare Advantage Special Needs Plan enrollees 66 years and older (denominator) who received at least one pain assessment (Pain Assessment Value Set) plan during the measurement year (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	SNP benefit packages whose enrollment was less than 30 as of February 2016 SNP Comprehensive Report were excluded from this measure.
General Notes:	The formula used to calculate this measure can be found in Attachment E .
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better

Title	Description				
Statistical Method:	Clustering				
Improvement Measure:	Included				
CAI Usage:	Not Included				
Case-mix adjusted:	No				
Weighting Category:	Process Measure				
Weighting Value:	1				
CMS Framework Area:	Clinical care				
NQF #:	Not Applicable				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDFS, PDFS & R-PDFS
Cut Points:	No	No	Yes	No	No
	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 40%	≥ 40% to < 62%	≥ 62% to < 80%	≥ 80% to < 94%	≥ 94%

Measure: C12 - Osteoporosis Management in Women who had a Fracture

Title	Description
Label for Stars:	Osteoporosis Management
Label for Data:	Osteoporosis Management
Description:	Percent of female plan members who broke a bone and got screening or treatment for osteoporosis within 6 months.
HEDIS Label:	Osteoporosis Management in Women Who Had a Fracture (OMW)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 157
Metric:	The percentage of woman MA enrollees 67 - 85 who suffered a fracture (denominator) and who had either a bone mineral density (BMD) test or prescription for a drug to treat osteoporosis in the six months after the fracture (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Included
Case-mix adjusted:	No
Weighting Category:	Process Measure
Weighting Value:	1
CMS Framework Area:	Clinical care
NQF #:	0053

Title	Description				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDFS, PDFS & R-PDFS
	Yes	Yes	Yes	Yes	No
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 24%	≥ 24% to < 42%	≥ 42% to < 52%	≥ 52% to < 71%	≥ 71%

Measure: C13 - Diabetes Care – Eye Exam

Title	Description
Label for Stars:	Eye Exam to Check for Damage from Diabetes
Label for Data:	Eye Exam to Check for Damage from Diabetes
Description:	Percent of plan members with diabetes who had an eye exam to check for damage from diabetes during the year.
HEDIS Label:	Comprehensive Diabetes Care (CDC) – Eye Exam (Retinal) Performed
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 132
Metric:	The percentage of diabetic MA enrollees 18-75 with diabetes (type 1 and type 2) (denominator) who had an eye exam (retinal) performed during the measurement year (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) Members who do not have a diagnosis of diabetes (Diabetes Value Set), in any setting, during the measurement year or the year prior to the measurement year and who had a diagnosis of gestational diabetes or steroid-induced diabetes (Diabetes Exclusions Value Set), in any setting, during the measurement year or the year prior to the measurement year.
	Organizations that apply optional exclusions must exclude members from the denominator for all indicators. The denominator for all rates must be the same, with the exception of the HbA1c Control (<7.0%) for a Selected Population denominator.
	If the member was included in the measure based on claim or encounter data, as described in the event/ diagnosis criteria, the optional exclusions do not apply because the member had a diagnosis of diabetes.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No
Weighting Category:	Process Measure
Weighting Value:	1

Title	Description					
CMS Framework Area: Clinical care						
NQF #: 0055						
Data Display: Percentage with no decimal place						
Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Cost					
	Yes	Yes	Yes	Yes	No	Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	
	< 47%	≥ 47% to < 59%	≥ 59% to < 72%	≥ 72% to < 81%	≥ 81%	

Measure: C14 - Diabetes Care – Kidney Disease Monitoring

Title	Description
Label for Stars:	Kidney Function Testing for Members with Diabetes
Label for Data:	Kidney Function Testing for Members with Diabetes
Description:	Percent of plan members with diabetes who had a kidney function test during the year.
HEDIS Label:	Comprehensive Diabetes Care (CDC) – Medical Attention for Nephropathy
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 132
Metric:	The percentage of diabetic MA enrollees 18-75 with diabetes (type 1 and type 2) (denominator) who had medical attention for nephropathy during the measurement year (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) Members who do not have a diagnosis of diabetes (Diabetes Value Set), in any setting, during the measurement year or the year prior to the measurement year and who had a diagnosis of gestational diabetes or steroid-induced diabetes (Diabetes Exclusions Value Set), in any setting, during the measurement year or the year prior to the measurement year.
	Organizations that apply optional exclusions must exclude members from the denominator for all indicators. The denominator for all rates must be the same, with the exception of the HbA1c Control (<7.0%) for a Selected Population denominator.
	If the member was included in the measure based on claim or encounter data, as described in the event/ diagnosis criteria, the optional exclusions do not apply because the member had a diagnosis of diabetes.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No

Title	Description				
Weighting Category:	Process Measure				
Weighting Value:	1				
CMS Framework Area:	Clinical care				
NQF #:	0062				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDPS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 92%	≥ 92% to < 94%	≥ 94% to < 96%	≥ 96% to < 98%	≥ 98%

Measure: C15 - Diabetes Care – Blood Sugar Controlled

Title	Description
Label for Stars:	Plan Members with Diabetes whose Blood Sugar is Under Control
Label for Data:	Plan Members with Diabetes whose Blood Sugar is Under Control
Description:	Percent of plan members with diabetes who had an A1C lab test during the year that showed their average blood sugar is under control.
HEDIS Label:	Comprehensive Diabetes Care (CDC) – HbA1c poor control (>9.0%)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 132
Metric:	The percentage of diabetic MA enrollees 18-75 (denominator) whose most recent HbA1c level is greater than 9%, or who were not tested during the measurement year (numerator). (This measure for public reporting is reverse scored so higher scores are better.) To calculate this measure, subtract the submitted rate from 100.
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) Members who do not have a diagnosis of diabetes (Diabetes Value Set), in any setting, during the measurement year or the year prior to the measurement year and who had a diagnosis of gestational diabetes or steroid-induced diabetes (Diabetes Exclusions Value Set), in any setting, during the measurement year or the year prior to the measurement year.
	Organizations that apply optional exclusions must exclude members from the denominator for all indicators. The denominator for all rates must be the same, with the exception of the HbA1c Control (<7.0%) for a Selected Population denominator.
	If the member was included in the measure based on claim or encounter data, as described in the event/ diagnosis criteria, the optional exclusions do not apply because the member had a diagnosis of diabetes.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering

Title	Description				
Improvement Measure:	Included				
CAI Usage:	Included				
Case-mix adjusted:	No				
Weighting Category:	Intermediate Outcome Measure				
Weighting Value:	3				
CMS Framework Area:	Clinical care				
NQF #:	0059				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDPS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No
Cut Points:	1 Star < 40%	2 Stars ≥ 40% to < 64%	3 Stars ≥ 64% to < 73%	4 Stars ≥ 73% to < 80%	5 Stars ≥ 80%

Measure: C16 - Controlling Blood Pressure

Title	Description
Label for Stars:	Controlling Blood Pressure
Label for Data:	Controlling Blood Pressure
Description:	Percent of plan members with high blood pressure who got treatment and were able to maintain a healthy pressure.
HEDIS Label:	Controlling High Blood Pressure (CBP)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 116
Metric:	The percentage of MA members 18–85 years of age who had a diagnosis of hypertension (HTN) (denominator) and whose BP was adequately controlled (<140/90) for members 18-59 years of age and 60-85 years of age with diagnosis of diabetes or (150/90) for members 60-85 without a diagnosis of diabetes during the measurement year (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) - Exclude from the eligible population all members with evidence of end-stage renal disease (ESRD) (ESRD Value Set; ESRD Obsolete Value Set) or kidney transplant (Kidney Transplant Value Set) on or prior to December 31 of the measurement year. Documentation in the medical record must include a dated note indicating evidence of ESRD, kidney transplant or dialysis. - Exclude from the eligible population all members with a diagnosis of pregnancy (Pregnancy Value Set) during the measurement year. - Exclude from the eligible population all members who had a nonacute inpatient admission during the measurement year. To identify nonacute inpatient admissions: - Identify all acute and nonacute inpatient stays (Inpatient Stay Value Set). - Confirm the stay was for nonacute care based on the presence of a nonacute code (Nonacute Inpatient Stay Value Set) on the claim. - Identify the discharge date for the stay.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.

Title	Description					
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.					
Data Time Frame:	01/01/2016 – 12/31/2016					
General Trend:	Higher is better					
Statistical Method:	Clustering					
Improvement Measure:	Included					
CAI Usage:	Not Included					
Case-mix adjusted:	No					
Weighting Category:	Intermediate Outcome Measure					
Weighting Value:	3					
CMS Framework Area:	Clinical care					
NQF #:	0018					
Data Display:	Percentage with no decimal place					
Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	
	< 55%	≥ 55% to < 67%	≥ 67% to < 75%	≥ 75% to < 86%	≥ 86%	

Measure: C17 - Rheumatoid Arthritis Management

Title	Description
Label for Stars:	Rheumatoid Arthritis Management
Label for Data:	Rheumatoid Arthritis Management
Description:	Percent of plan members with rheumatoid arthritis who got one or more prescription(s) for an anti-rheumatic drug.
HEDIS Label:	Disease-Modifying Anti-Rheumatic Drug Therapy for Rheumatoid Arthritis (ART)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 154
Metric:	The percentage of MA members who were diagnosed with rheumatoid arthritis during the measurement year (denominator), and who were dispensed at least one ambulatory prescription for a disease modifying anti-rheumatic drug (DMARD) (numerator).
Primary Data Source:	HEDIS
Data Source Category:	Health and Drug Plans
Exclusions:	(optional) • A diagnosis of HIV (HIV Value Set) any time during the member's history through December 31 of the measurement year. • A diagnosis of pregnancy (Pregnancy Value Set) any time during the measurement year.
	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better

Title	Description				
Statistical Method:	Clustering				
Improvement Measure:	Included				
CAI Usage:	Included				
Case-mix adjusted:	No				
Weighting Category:	Process Measure				
Weighting Value:	1				
CMS Framework Area:	Clinical care				
NQF #:	0054				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP E-PFFS, PFFS & R-PFFS
Cut Points:	Yes	Yes	Yes	Yes	No
	Yes	Yes	Yes	No	Yes
	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 65%	≥ 65% to < 72%	≥ 72% to < 78%	≥ 78% to < 86%	≥ 86%

Measure: C18 - Reducing the Risk of Falling

Title	Description
Label for Stars:	Reducing the Risk of Falling
Label for Data:	Reducing the Risk of Falling
Description:	Percent of plan members with a problem falling, walking, or balancing, who discussed it with their doctor and got treatment for it during the year.
HEDIS Label:	Fall Risk Management (FRM)
Measure Reference:	NCQA HEDIS 2016 Specifications for The Medicare Health Outcomes Survey Volume 6, page 36
Metric:	The percentage of Medicare members 65 years of age or older who had a fall or had problems with balance or walking in the past 12 months (denominator), who were seen by a practitioner in the past 12 months and who received fall risk intervention from their current practitioner (numerator).
Primary Data Source:	HEDIS / HOS
Data Source Description:	Cohort 17 Follow-up Data collection (2016) and Cohort 19 Baseline data collection (2016).
	HOS Survey Question 48: A fall is when your body goes to the ground without being pushed. In the past 12 months, did your doctor or other health provider talk with you about falling or problems with balance or walking?
	HOS Survey Question 49: Did you fall in the past 12 months?
	HOS Survey Question 50: In the past 12 months have you had a problem with balance or walking?
	HOS Survey Question 51: Has your doctor or other health provider done anything to help prevent falls or treat problems with balance or walking? Some things they might do include: • Suggest that you use a cane or walker • Check your blood pressure lying or standing • Suggest that you do an exercise or physical therapy program

Title	Description
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- Suggest a vision or hearing testing

Data Source Category: Survey of Enrollees

Exclusions: Contracts must achieve a denominator of at least 100 to obtain a reportable result. If the denominator is less than 100, the measure result will be "Not enough data available."

Data Time Frame: 04/18/2016 – 07/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: 0035

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 52%	≥ 52% to < 59%	≥ 59% to < 66%	≥ 66% to < 74%	≥ 74%

Measure: C19 - Improving Bladder Control

Title	Description
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Label for Stars: Improving Bladder Control

Label for Data: Improving Bladder Control

Description: Percent of plan members with a urine leakage problem in the past 6 months who discussed treatment options with a provider.

HEDIS Label: Management of Urinary Incontinence in Older Adults (MUI)

Measure Reference: NCQA HEDIS 2016 Specifications for The Medicare Health Outcomes Survey Volume 6, page 31

Metric: The percentage of Medicare members 65 years of age or older who reported having any urine leakage in the past six months (denominator) and who discussed treatment options for their urinary incontinence with a provider (numerator).

Primary Data Source: HEDIS / HOS

Data Source Description: Cohort 17 Follow-up Data collection (2016) and Cohort 19 Baseline data collection (2016).

HOS Survey Question 42: Many people experience leaking of urine, also called urinary incontinence. In the past six months, have you experienced leaking of urine?

HOS Survey Question 45: There are many ways to control or manage the leaking of urine, including bladder training exercises, medication and surgery. Have you ever talked with a doctor, nurse, or other health care provider about any of these approaches?

Title	Description
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Member choices must be as follows to be included in the denominator:

- Q42 = "Yes."
- Q45 = "Yes" or "No."

The numerator contains the number of members in the denominator who indicated they discussed treatment options for their urinary incontinence with a health care provider.

Member choice must be as follows to be included in the numerator:

- Q45 = "Yes."

Data Source Category: Survey of Enrollees

Exclusions: None listed.

Data Time Frame: 04/18/2016 – 07/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: 0030

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 39%	≥ 39% to < 43%	≥ 43% to < 46%	≥ 46% to < 50%	≥ 50%

Measure: C20 - Medication Reconciliation Post-Discharge

Title	Description
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Label for Stars: The Plan Makes Sure Member Medication Records Are Up-to-Date After Hospital Discharge

Label for Data: The Plan Makes Sure Member Medication Records Are Up-to-Date After Hospital Discharge

Description: This topic shows the percent of plan members whose medication records were updated within 30 days after leaving the hospital. To update the record, a doctor (or other health care professional) looks at the new medications prescribed in the hospital and compares them with the other medications the patient takes. Updating the medication records can help to prevent errors that can occur when medications are changed.

HEDIS Label: Medication Reconciliation Post-Discharge (MRP)

Measure Reference: NCQA HEDIS 2017 Technical Specifications Volume 2, page 202

Metric: The percentage of discharges from January 1–December 1 of the measurement year for members 18 years of age and older for whom medications were reconciled the date of discharge through 30 days after discharge (31 total days).

Primary Data Source: HEDIS

Title	Description				
Data Source Category:	Health and Drug Plans				
Exclusions:	Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.				
	Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.				
Data Time Frame:	01/01/2016 – 12/31/2016				
General Trend:	Higher is better				
Statistical Method:	Clustering				
Improvement Measure:	Not Included				
CAI Usage:	Not Included				
Case-mix adjusted:	No				
Weighting Category:	Process Measure				
Weighting Value:	1				
CMS Framework Area:	Care coordination				
NQF #:	0554				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No
Cut Points:	1 Star < 19%	2 Stars ≥ 19% to < 37%	3 Stars ≥ 37% to < 55%	4 Stars ≥ 55% to < 68%	5 Stars ≥ 68%

Measure: C21 - Plan All-Cause Readmissions

Title	Description
Label for Stars:	Readmission to a Hospital within 30 Days of Being Discharged (more stars are better because it means fewer members are being readmitted)
Label for Data:	Readmission to a Hospital within 30 Days of Being Discharged (lower percentages are better because it means fewer members are being readmitted)
Description:	Percent of senior plan members discharged from a hospital stay who were readmitted to a hospital within 30 days, either for the same condition as their recent hospital stay or for a different reason. (Patients may have been readmitted back to the same hospital or to a different one. Rates of readmission take into account how sick patients were when they went into the hospital the first time. This “risk-adjustment” helps make the comparisons between plans fair and meaningful.)
HEDIS Label:	Plan All-Cause Readmissions (PCR)
Measure Reference:	NCQA HEDIS 2017 Technical Specifications Volume 2, page 345
Metric:	The percentage of acute inpatient stays during the measurement year that were followed by an unplanned acute readmission for any diagnosis within 30 days, for members 65 years of age and older using the following formula to control for differences in the case mix of patients across different contracts.
	For contract A, their case-mix adjusted readmission rate relative to the national average is the observed readmission rate for contract A divided by the expected readmission rate for contract A. This ratio is then multiplied by the national average observed rate.

Title	Description
	To calculate the observed rate and expected rate for contract A for members 65 years and older, the following formulas were used:
	1. The observed readmission rate for contract A equals the sum of the count of 30-day readmissions across the three age bands (65-74, 75-84 and 85+) divided by the sum of the count of index stays across the three age bands (65-74, 75-84 and 85+).
	2. The expected readmission rate for contract A equals the sum of the average adjusted probabilities across the three age bands (65-74, 75-84 and 85+), weighted by the percentage of index stays in each age band.
	See Attachment F : Calculating Measure C19: Plan All-Cause Readmissions for the complete formula, example calculation and National Average Observation value used to complete this measure.

Primary Data Source: HEDIS

Data Source Category: Health and Drug Plans

Exclusions: Contracts whose enrollment was at least 500 but less than 1,000 as of the July 2016 enrollment report and having measure score reliability less than 0.7 are excluded.

Contracts whose enrollment was less than 500 as of the July 2016 enrollment report are excluded from this measure.

As listed in the HEDIS Technical Specifications. CMS has excluded contracts whose denominator was 10 or less.

General Notes: In past Star Ratings, 1876 Cost contracts voluntarily reported data in this measure even though they were not required to do so. For the HEDIS 2017 submission 1876 Cost contracts were not permitted to report this measure, so no additional action needed to be taken.

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Lower is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Outcome Measure

Weighting Value: 3

CMS Framework Area: Care coordination

NQF #: 1768

Data Display: Percentage with no decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	No	Yes	Yes	Yes	No	Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	
	> 18%	> 11% to ≤ 18%	> 9% to ≤ 11%	> 6% to ≤ 9%	≤ 6%	

Domain: 3 - Member Experience with Health Plan

Measure: C22 - Getting Needed Care

Title	Description
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Label for Stars: Ease of Getting Needed Care and Seeing Specialists

Label for Data: Ease of Getting Needed Care and Seeing Specialists (on a scale from 0 to 100)

Description: Percent of the best possible score the plan earned on how easy it is for members to get needed care, including care from specialists.

Metric: This case-mix adjusted composite measure is used to assess how easy it was for a member to get needed care and see specialists. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Questions (question numbers vary depending on survey type):

- In the last 6 months, how often was it easy to get appointments with specialists?
- In the last 6 months, how often was it easy to get the care, tests, or treatment you needed through your health plan?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: 0006

Data Display: Numeric with no decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Base Group Cut Points:	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	< 80	≥ 80 to < 82	≥ 82 to < 84	≥ 84 to < 86	≥ 86

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: C23 - Getting Appointments and Care Quickly

Title	Description
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Label for Stars: Getting Appointments and Care Quickly

Label for Data: Getting Appointments and Care Quickly (on a scale from 0 to 100)

Description: Percent of the best possible score the plan earned on how quickly members get appointments and care.

Metric: This case-mix adjusted composite measure is used to assess how quickly the member was able to get appointments and care. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Questions (question numbers vary depending on survey type):

- In the last 6 months, when you needed care right away, how often did you get care as soon as you thought you needed?
- In the last 6 months, not counting the times when you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?
- In the last 6 months, how often did you see the person you came to see within 15 minutes of your appointment time?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: 0006

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Base Group Cut Points:	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	< 74	≥ 74 to < 76	≥ 76 to < 79	≥ 79 to < 81	≥ 81

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: C24 - Customer Service

Title	Description
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Label for Stars: Health Plan Provides Information or Help When Members Need It

Label for Data: Health Plan Provides Information or Help When Members Need It (on a scale from 0 to 100)

Description: Percent of the best possible score the plan earned on how easy it is for members to get information and help from the plan when needed.

Metric: This case-mix adjusted composite measure is used to assess how easy it was for the member to get information and help when needed. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Questions (question numbers vary depending on survey type):

- In the last 6 months, how often did your health plan's customer service give you the information or help you needed?
- In the last 6 months, how often did your health plan's customer service treat you with courtesy and respect?
- In the last 6 months, how often were the forms for your health plan easy to fill out?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: 0006

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Base Group Cut Points:	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	< 88	≥ 88 to < 89	≥ 89 to < 91	≥ 91 to < 92	≥ 92

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: C25 - Rating of Health Care Quality

Title	Description												
Label for Stars:	Member's Rating of Health Care Quality												
Label for Data:	Member's Rating of Health Care Quality (on a scale from 0 to 100)												
Description:	Percent of the best possible score the plan earned from members who rated the quality of the health care they received.												
Metric:	This case-mix adjusted measure is used to assess members' view of the quality of care received from the health plan. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.												
Primary Data Source:	CAHPS												
Data Source Description:	CAHPS Survey Question (question numbers vary depending on survey type): Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 6 months?												
Data Source Category:	Survey of Enrollees												
General Notes:	CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.												
Data Time Frame:	03/2017 – 06/2017												
General Trend:	Higher is better												
Statistical Method:	Relative Distribution and Significance Testing												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	Yes												
Weighting Category:	Patients' Experience and Complaints Measure												
Weighting Value:	1.5												
CMS Framework Area:	Person- and caregiver-centered experience and outcomes												
NQF #:	0006												
Data Display:	Numeric with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
Yes	Yes	Yes	Yes	No	Yes								
Base Group Cut Points:	<table><tr><th>Base Group 1</th><th>Base Group 2</th><th>Base Group 3</th><th>Base Group 4</th><th>Base Group 5</th></tr><tr><td>< 83</td><td>≥ 83 to < 85</td><td>≥ 85 to < 86</td><td>≥ 86 to < 87</td><td>≥ 87</td></tr></table>	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5	< 83	≥ 83 to < 85	≥ 85 to < 86	≥ 86 to < 87	≥ 87		
Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5									
< 83	≥ 83 to < 85	≥ 85 to < 86	≥ 86 to < 87	≥ 87									
These technical notes show the base group cut points for CAHPS measures; please see the Attachment K for the CAHPS Methodology for final star assignment rules.													

Measure: C26 - Rating of Health Plan

Title	Description
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Label for Stars: Member's Rating of Health Plan

Label for Data: Member's Rating of Health Plan (on a scale from 0 to 100)

Description: Percent of the best possible score the plan earned from members who rated the health plan.

Metric: This case-mix adjusted measure is used to assess members' overall view of their health plan. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Question (question numbers vary depending on survey type):

- Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: 0006

Data Display: Numeric with no decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes

Base Group Cut Points:	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	< 82	≥ 82 to < 84	≥ 84 to < 86	≥ 86 to < 88	≥ 88

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: C27 - Care Coordination

Title	Description												
Label for Stars:	Coordination of Members' Health Care Services												
Label for Data:	Coordination of Members' Health Care Services (on a scale from 0 to 100)												
Description:	Percent of the best possible score the plan earned on how well the plan coordinates members' care. (This includes whether doctors had the records and information they needed about members' care and how quickly members got their test results.)												
Metric:	This case-mix adjusted composite measure is used to assess Care Coordination. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale of 0 to 100. The score shown is the percentage of the best possible score each contract earned.												
Primary Data Source:	CAHPS												
Data Source Description:	CAHPS Survey Questions (question numbers vary depending on survey type): • In the last 6 months, when you visited your personal doctor for a scheduled appointment, how often did he or she have your medical records or other information about your care? • In the last 6 months, when your personal doctor ordered a blood test, x-ray or other test for you, how often did someone from your personal doctor's office follow up to give you those results? • In the last 6 months, when your personal doctor ordered a blood test, x-ray or other test for you, how often did you get those results as soon as you needed them? • In the last 6 months, how often did you and your personal doctor talk about all the prescription medicines you were taking? • In the last 6 months, did you get the help you needed from your personal doctor's office to manage your care among these different providers and services? • In the last 6 months, how often did your personal doctor seem informed and up-to-date about the care you got from specialists?												
Data Source Category:	Survey of Enrollees												
General Notes:	CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.												
Data Time Frame:	03/2017 – 06/2017												
General Trend:	Higher is better												
Statistical Method:	Relative Distribution and Significance Testing												
Improvement Measure:	Not Included												
CAI Usage:	Not Included												
Case-mix adjusted:	Yes												
Weighting Category:	Patients' Experience and Complaints Measure												
Weighting Value:	1.5												
CMS Framework Area:	Care coordination												
NQF #:	Not Applicable												
Data Display:	Numeric with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
Yes	Yes	Yes	Yes	No	Yes								
Base Group Cut Points:	<table><tr><th>Base Group 1</th><th>Base Group 2</th><th>Base Group 3</th><th>Base Group 4</th><th>Base Group 5</th></tr><tr><td>< 83</td><td>≥ 83 to < 84</td><td>≥ 84 to < 87</td><td>≥ 87 to < 88</td><td>≥ 88</td></tr></table>	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5	< 83	≥ 83 to < 84	≥ 84 to < 87	≥ 87 to < 88	≥ 88		
Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5									
< 83	≥ 83 to < 84	≥ 84 to < 87	≥ 87 to < 88	≥ 88									

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Domain: 4 - Member Complaints and Changes in the Health Plan's Performance

Measure: C28 - Complaints about the Health Plan

Title	Description
Label for Stars:	Complaints about the Health Plan (more stars are better because it means fewer complaints)
Label for Data:	Complaints about the Health Plan (number of complaints for every 1,000 members) (lower numbers are better because it means fewer complaints)
Description:	How many complaints Medicare received about the health plan.
Metric:	Rate of complaints about the health plan per 1,000 members. For each contract, this rate is calculated as: $\left[\frac{\text{Total number of all complaints logged into the Complaint Tracking Module (CTM)}}{\text{Average Contract enrollment}} \right] * 1,000 * 30 / (\text{Number of Days in Period})$
	Number of Days in Period = 366 for leap years, 365 for all other years.
	- Complaints data are pulled after the end of the measurement timeframe to serve as a snapshot of CTM data. - Enrollment numbers used to calculate the complaint rate were based on the average enrollment for the time period measured for each contract. - A contract's failure to follow CMS' CTM Standard Operating Procedures will not result in CMS' adjustment of the data used for these measures.
Primary Data Source:	Complaints Tracking Module (CTM)
Data Source Description:	Data were obtained from the CTM based on the contract entry date (the date that complaints are assigned or re-assigned to contracts; also known as the contract assignment/reassignment date) for the reporting period specified. The status of any specific complaint at the time the data are pulled stands for use in the reports. Any changes to the complaints data subsequent to the data pull cannot be excluded retroactively. CMS allows for an approximate 6-month "wash out" period to account for any adjustments per CMS' CTM Standard Operating Procedures. Complaint rates per 1,000 enrollees are adjusted to a 30-day basis.
Data Source Category:	CMS Administrative Data
Exclusions:	Some complaints that cannot be clearly attributed to the plan are excluded, please see Attachment B : Complaints Tracking Module Exclusion List.
	Complaint rates are not calculated for contracts with average enrollment of less than 800 enrollees during the measurement period.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Lower is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No
Weighting Category:	Patients' Experience and Complaints Measure
Weighting Value:	1.5
CMS Framework Area:	Person- and caregiver-centered experience and outcomes
NQF #:	Not Applicable
Data Display:	Numeric with 2 decimal places

Title	Description					
Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No	Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	
	> 0.86	> 0.53 to ≤ 0.86	> 0.31 to ≤ 0.53	> 0.14 to ≤ 0.31	≤ 0.14	

Measure: C29 - Members Choosing to Leave the Plan

Title	Description
Label for Stars:	Members Choosing to Leave the Plan (more stars are better because it means fewer members choose to leave the plan)
Label for Data:	Members Choosing to Leave the Plan (lower percentages are better because it means fewer members choose to leave the plan)
Description:	Percent of plan members who chose to leave the plan.
Metric:	The percent of members who chose to leave the contract comes from disenrollment reason codes in Medicare's enrollment system. The percent is calculated as the number of members who chose to leave the contract between January 1, 2016–December 31, 2016 (numerator) divided by all members enrolled in the contract at any time during 2016 (denominator).
Primary Data Source:	MBDSS
Data Source Description:	Medicare Beneficiary Database Suite of Systems (MBDSS)
Data Source Category:	CMS Administrative Data
Exclusions:	Members who involuntarily left their contract due to circumstances beyond their control are removed from the final numerator, specifically: • Members affected by a contract service area reduction • Members affected by PBP termination • Members affected by LIS reassignments • Members who are enrolled in employer group plans • Members in PBPs that were granted special enrollment exceptions • Members who were passively enrolled into a Demonstration (MMP) • Contracts with less than 1,000 enrollees
General Notes:	This measure includes members with a disenrollment effective date between 1/1/2016 and 12/31/2016 who disenrolled from the contract with any one of the following disenrollment reason codes: 11 - Voluntary Disenrollment through plan 13 - Disenrollment because of enrollment in another Plan 14 - Retroactive 99 - Other (not supplied by beneficiary). The Disenrollment Reasons Survey (DRS) data available in the HPMS plan preview, as part of Medicare Plan Finder and in the CMS downloadable Master Table, are not used in the calculation of this measure. The DRS data are presented in each of the systems for information purposes only.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Lower is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No

Title	Description				
Weighting Category:	Patients' Experience and Complaints Measure				
Weighting Value:	1.5				
CMS Framework Area:	Person- and caregiver-centered experience and outcomes				
NQF #:	Not Applicable				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	Yes	No
					Yes
Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	> 28%	> 18% to ≤ 28%	> 13% to ≤ 18%	> 8% to ≤ 13%	≤ 8%

Measure: C30 - Beneficiary Access and Performance Problems

Title	Description
Label for Stars:	Problems Medicare Found in the Plan's Performance (more stars are better because it means fewer serious problems)
Label for Data:	Problems Medicare Found in the Plan's Performance (on a scale from 0 to 100, higher numbers are better because it means fewer serious problems)
Description:	Each year, Medicare checks each plan to see if there are problems with the plan. For example, Medicare checks whether: - Members are having problems getting services, and - Plans are following all of Medicare's rules. Medicare gives the plan a lower score (on a 0 to 100 scale) if there are problems. The score combines how serious the problems are, how many there are, and how directly they affect members. A higher score is better because it means Medicare found less serious or fewer problems, or they affected fewer members directly.
Metric:	This measure is based on CMS' sanctions, civil money penalties (CMP) as well as Compliance Activity Module (CAM) data (this includes: notices of non-compliance, warning letters {with or without business plan}, and ad-hoc corrective action plans (CAP) and the CAP severity). - Contracts' scores are based on a scale of 0-100 points. - The starting score for each contract works as follows: - Contracts with an effective date of 1/1/2017 or later are marked as "Plan too new to be measured." - All contracts with an effective date prior to 1/1/2017 begin with a score 100. - Contracts under sanction anytime during the data time frame are reduced to 0. - The following deductions are taken from contracts whose score is above 0: - For each CMP with beneficiary impact related to access: 40 points. - Contracts that have a CAM score (CAM score calculation is discussed below) are reduced as follows: 0 – 2 CAM Score – 0 points 3 – 9 CAM Score – 20 points 10 – 19 CAM Score – 40 points 20 – 29 CAM Score – 60 points ≥ 30 CAM Score – 80 points Calculation of the CAM score combines the notices of non-compliance, warning letters (with or without business plan) and ad-hoc CAPs and their severity. The formula used is as follows: $\text{CAM Score} = (\text{NC} * 1) + (\text{woBP} * 3) + (\text{wBP} * 4) + (6 * \text{CAP Severity})$ Where: NC = Number of Notices of Non-Compliance woBP = Number of Warning Letters without Business Plan

Title	Description
	wBP = Number of Warning Letters with Business Plan CAP Severity = Sum of the severity of each individual ad-hoc CAP given to a contract during the measurement period. Each CAP is rated as one of the following: 3 – ad-hoc CAP with beneficiary access impact 2 – ad-hoc CAP with beneficiary non-access impact 1 – ad-hoc CAP no beneficiary impact Primary Data Source: Compliance Activity Module (CAM) Data Source Description: Ad hoc CAPs and compliance actions that occurred during the 12 month past performance review period between January 1, 2016 and December 31, 2016. For compliance actions, the date the action was issued is used for pulling the data from HPMS. The "date the action was issued" is the date that the compliance letter was sent to the contract, not the date when the issue occurred. Data Source Category: CMS Administrative Data Exclusions: CAM entries with the following characteristics were removed prior to processing the BAPP score: • Ad-hoc CAPs with a topic of "Star Ratings" • Notices of Non-Compliance with a topic of "Financial Concerns--Solvency, Reporting, Licensure, Other" Data Time Frame: 01/01/2016 – 12/31/2016 General Trend: Higher is better Statistical Method: Fixed Cut Points Improvement Measure: Not Included CAI Usage: Not Included Case-mix adjusted: No Weighting Category: Measures Capturing Access Weighting Value: 1.5 CMS Framework Area: Population / community health NQF #: Not Applicable Data Display: Numeric with no decimal place Reporting Requirements:

1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
Yes	Yes	Yes	Yes	No	Yes

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	≤ 20	40	60	80	100

Measure: C31 - Health Plan Quality Improvement

Title	Description												
Label for Stars:	Improvement (if any) in the Health Plan's Performance												
Label for Data:	Improvement (if any) in the Health Plan's Performance												
Description:	This shows how much the health plan's performance improved or declined from one year to the next year. If a plan receives 1 or 2 stars, it means, on average, the plan's scores declined (have gotten worse). If a plan receives 3 stars, it means, on average, the plan's scores stayed about the same. If a plan receives 4 or 5 stars, it means, on average, the plan's scores improved. Keep in mind that a plan that is already doing well in most areas may not show much improvement. It is also possible that a plan can start with low ratings, show a lot of improvement, and still not be performing very well.												
Metric:	The numerator is the net improvement, which is a sum of the number of significantly improved measures minus the number of significantly declined measures. The denominator is the number of measures eligible for the improvement measure (i.e., the measures that were included in the 2017 and 2018 Star Ratings for this contract and had no specification changes).												
Primary Data Source:	Star Ratings												
Data Source Description:	2017 and 2018 Star Ratings												
Data Source Category:	Star Ratings												
Exclusions:	Contracts must have data in at least half of the measures used to calculate improvement to be rated in this measure.												
General Notes:	Attachment I contains the formulas used to calculate the improvement measure and lists indicating which measures were used.												
Data Time Frame:	Not Applicable												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Not Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Improvement Measure												
Weighting Value:	5												
CMS Framework Area:	Population / community health												
NQF #:	Not Applicable												
Data Display:	Not Applicable												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
Yes	Yes	Yes	Yes	No	Yes								
Cut Points:	<table><tr><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>< -0.203</td><td>≥ -0.203 to < 0.000</td><td>≥ 0.000 to < 0.155</td><td>≥ 0.155 to < 0.429</td><td>≥ 0.429</td></tr></table>	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	< -0.203	≥ -0.203 to < 0.000	≥ 0.000 to < 0.155	≥ 0.155 to < 0.429	≥ 0.429		
1 Star	2 Stars	3 Stars	4 Stars	5 Stars									
< -0.203	≥ -0.203 to < 0.000	≥ 0.000 to < 0.155	≥ 0.155 to < 0.429	≥ 0.429									

Domain: 5 - Health Plan Customer Service

Measure: C32 - Plan Makes Timely Decisions about Appeals

Title	Description												
Label for Stars:	Health Plan Makes Timely Decisions about Appeals												
Label for Data:	Health Plan Makes Timely Decisions about Appeals												
Description:	Percent of plan members who got a timely response when they made an appeal request to the health plan about a decision to refuse payment or coverage.												
Metric:	Percent of appeals timely processed by the plan (numerator) out of all the plan's appeals decided by the Independent Review Entity (IRE) (includes upheld, overturned and partially overturned appeals) (denominator). This is calculated as: ([Number of Timely Appeals] / ([Appeals Upheld] + [Appeals Overturned] + [Appeals Partially Overturned])) * 100.												
Primary Data Source:	Independent Review Entity (IRE)												
Data Source Description:	Data were obtained from the Independent Review Entity (IRE) contracted by CMS for Part C appeals. The appeals used in this measure are based on the date in the calendar year the appeal was received (or should have been received) by the IRE, not the date a decision was reached by the IRE. If a Reopening occurs and is decided prior to May 1, 2017, the Reopened decision is used in place of the Reconsideration decision. Reopenings decided on or after May 1, 2017 are not reflected in these data, the original decision result is used. The results of appeals that occur beyond Level 2 (i.e., Administrative Law Judge or Medicare Appeals Council appeals) are not included in the data.												
Data Source Category:	Data Collected by CMS Contractors												
Exclusions:	If the denominator is ≤ 10, the result is —"Not enough data available." Dismissed and Withdrawn appeals are excluded from this measure.												
General Notes:	This measure includes all Standard Coverage, Standard Claim, and Expedited appeals received by the IRE, regardless of the appellant. This includes appeals requested by a beneficiary, appeals requested by a party on behalf of a beneficiary, and appeals requested by non-contract providers.												
Data Time Frame:	01/01/2016 – 12/31/2016												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Measures Capturing Access												
Weighting Value:	1.5												
CMS Framework Area:	Population / community health												
NQF #:	Not Applicable												
Data Display:	Percentage with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
Yes	Yes	Yes	Yes	No	Yes								
Cut Points:	<table><tr><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>< 70%</td><td>≥ 70% to < 86%</td><td>≥ 86% to < 94%</td><td>≥ 94% to < 98%</td><td>≥ 98%</td></tr></table>	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	< 70%	≥ 70% to < 86%	≥ 86% to < 94%	≥ 94% to < 98%	≥ 98%		
1 Star	2 Stars	3 Stars	4 Stars	5 Stars									
< 70%	≥ 70% to < 86%	≥ 86% to < 94%	≥ 94% to < 98%	≥ 98%									

Measure: C33 - Reviewing Appeals Decisions

Title	Description												
Label for Stars:	Fairness of the Health Plan's Appeal Decisions, Based on an Independent Reviewer												
Label for Data:	Fairness of the Health Plan's Appeal Decisions, Based on an Independent Reviewer												
Description:	This rating shows how often an <u>independent reviewer</u> thought the health plan's decision to deny an appeal was fair. This includes appeals made by plan members and out-of-network providers. (This rating is not based on how often the plan denies appeals, but rather <i>how fair</i> the plan is when they do deny an appeal.)												
Metric:	Percent of appeals where a plan's decision was "upheld" by the Independent Review Entity (IRE) (numerator) out of all the plan's appeals (upheld, overturned, and partially overturned appeals only) that the IRE reviewed (denominator). This is calculated as: ([Appeals Upheld] / ([Appeals Upheld] + [Appeals Overturned] + [Appeals Partially Overturned]))* 100.												
Primary Data Source:	Independent Review Entity (IRE)												
Data Source Description:	Data were obtained from the Independent Review Entity (IRE) contracted by CMS for Part C appeals. The appeals used in this measure are based on the date in the calendar year the appeal was received (or should have been received) by the IRE, not the date a decision was reached by the IRE. If a Reopening occurs and is decided prior to May 1, 2017, the Reopened decision is used in place of the Reconsideration decision. Reopenings decided on or after May 1, 2017 are not reflected in these data, the original decision result is used. The results of appeals that occur beyond Level 2 (i.e., Administrative Law Judge or Medicare Appeals Council appeals) are not included in the data.												
Data Source Category:	Data Collected by CMS Contractors												
Exclusions:	If the minimum number of appeals (upheld + overturned + partially overturned) is ≤ 10, the result is "Not enough data available." Dismissed and Withdrawn appeals are excluded from this measure.												
General Notes:	This measure includes all Standard Coverage, Standard Claim, and Expedited appeals received by the IRE, regardless of the appellant. This includes appeals requested by a beneficiary, appeals requested by a party on behalf of a beneficiary, and appeals requested by non-contract providers.												
Data Time Frame:	01/01/2016 – 12/31/2016												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Measures Capturing Access												
Weighting Value:	1.5												
CMS Framework Area:	Population / community health												
NQF #:	Not Applicable												
Data Display:	Percentage with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
Yes	Yes	Yes	Yes	No	Yes								

Cut Points:	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	< 62%	≥ 62% to < 76%	≥ 76% to < 86%	≥ 86% to < 93%	≥ 93%

Measure: C34 - Call Center – Foreign Language Interpreter and TTY Availability

Title	Description												
Label for Stars:	Availability of TTY Services and Foreign Language Interpretation When Prospective Members Call the Health Plan												
Label for Data:	Availability of TTY Services and Foreign Language Interpretation When Prospective Members Call the Health Plan												
Description:	Percent of time that TTY services and foreign language interpretation were available when needed by prospective members who called the health plan's prospective enrollee customer service phone number.												
Metric:	The calculation of this measure is the number of successful contacts with the interpreter and TTY divided by the number of attempted contacts. Successful contact with an interpreter is defined as establishing contact with an interpreter and beginning the first of three survey questions. Interpreters must be able to communicate responses to the call surveyor in the call center's non-primary language about the plan sponsor's Medicare benefits. (The primary language is Spanish in Puerto Rico and English elsewhere.) Successful contact with a TTY service is defined as establishing contact with and confirming that the TTY operator can answer questions about the plan's Medicare Part C benefit.												
Primary Data Source:	Call Center												
Data Source Description:	Call center monitoring data collected by CMS. The Customer Service Contact for Prospective Members phone number associated with each contract was monitored.												
Data Source Category:	Data Collected by CMS Contractors												
Exclusions:	Data were not collected from MA-PDs and PDPs under sanction or from organizations that did not have a phone number accessible to survey callers.												
General Notes:	Specific questions about Call Center Monitoring and requests for detail data should be directed to the CallCenterMonitoring@cms.hhs.gov												
Data Time Frame:	02/13/2017 – 06/02/2017												
General Trend:	Higher is better												
Statistical Method:	Clustering												
Improvement Measure:	Included												
CAI Usage:	Not Included												
Case-mix adjusted:	No												
Weighting Category:	Measures Capturing Access												
Weighting Value:	1.5												
CMS Framework Area:	Population / community health												
NQF #:	Not Applicable												
Data Display:	Percentage with no decimal place												
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>No</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	No	Yes	Yes	Yes	No	Yes
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS								
No	Yes	Yes	Yes	No	Yes								
Cut Points:	<table><tr><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>< 53%</td><td>≥ 53% to < 63%</td><td>≥ 63% to < 81%</td><td>≥ 81% to < 94%</td><td>≥ 94%</td></tr></table>	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	< 53%	≥ 53% to < 63%	≥ 63% to < 81%	≥ 81% to < 94%	≥ 94%		
1 Star	2 Stars	3 Stars	4 Stars	5 Stars									
< 53%	≥ 53% to < 63%	≥ 63% to < 81%	≥ 81% to < 94%	≥ 94%									

Part D Domain and Measure Details

See [Attachment C](#) for the national averages of individual Part D measures.

Domain: 1 - Drug Plan Customer Service

Measure: D01 - Call Center – Foreign Language Interpreter and TTY Availability

Title	Description
Label for Stars:	Availability of TTY Services and Foreign Language Interpretation When Prospective Members Call the Drug Plan
Label for Data:	Availability of TTY Services and Foreign Language Interpretation When Prospective Members Call the Drug Plan
Description:	Percent of time that TTY services and foreign language interpretation were available when needed by prospective members who called the drug plan's prospective enrollee customer service phone number.
Metric:	The calculation of this measure is the number of successful contacts with the interpreter and TTY divided by the number of attempted contacts. Successful contact with an interpreter is defined as establishing contact with an interpreter and beginning the first of three survey questions. Interpreters must be able to communicate responses to the call surveyor in the call center's non-primary language about the plan sponsor's Medicare benefits. (The primary language is Spanish in Puerto Rico and English elsewhere.) Successful contact with a TTY service is defined as establishing contact with and confirming that the TTY operator can answer questions about the plan's Medicare Part D benefit.
Primary Data Source:	Call Center
Data Source Description:	Call center monitoring data collected by CMS. The Customer Service Contact for Prospective Members phone number associated with each contract was monitored.
Data Source Category:	Data Collected by CMS Contractors
Exclusions:	Data were not collected from MA-PDs and PDPs under sanction or from organizations that did not have a phone number accessible to survey callers.
General Notes:	Specific questions about Call Center Monitoring and requests for detail data should be directed to the CallCenterMonitoring@cms.hhs.gov
Data Time Frame:	02/13/2017 – 06/02/2017
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No
Weighting Category:	Measures Capturing Access
Weighting Value:	1.5
CMS Framework Area:	Population / community health
NQF #:	Not Applicable
Data Display:	Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	No	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	< 54%	≥ 54% to < 69%	≥ 69% to < 83%	≥ 83% to < 95%	≥ 95%
	PDP	< 77%	≥ 77% to < 87%	≥ 87% to < 93%	≥ 93% to < 99%	≥ 99%

Measure: D02 - Appeals Auto-Forward

Title	Description
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Label for Stars: Drug Plan Fails to Make Timely Decisions about Appeals (more stars are better because it means fewer delays)

Label for Data: Drug Plan Fails to Make Timely Decisions about Appeals (for every 10,000 members)

Description: Percent of plan members who failed to get a timely response when they made an appeal request to the drug plan about a decision to refuse payment or coverage. If you would like more information about Medicare appeals, click on <http://www.medicare.gov/claims-and-appeals/index.html>

Metric: This measure is defined as the rate of cases auto-forwarded to the Independent Review Entity (IRE) because the plan exceeded decision timeframes for coverage determinations or redeterminations. This is calculated as:

$$[(\text{Total number of cases auto-forwarded to the IRE}) / (\text{Average Medicare Part D enrollment})] * 10,000.$$

There is no minimum number of cases required to receive a rating.

Primary Data Source: Independent Review Entity (IRE)

Data Source Description: Data were obtained from the Independent Review Entity (IRE) contracted by CMS.

Data Source Category: Data Collected by CMS Contractors

Exclusions: Rates are not calculated for contracts with average enrollment less than 800 enrollees during the measurement period. Cases the IRE remands back to the plan are not included in these data.

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Lower is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Measures Capturing Access

Weighting Value: 1.5

CMS Framework Area: Population / community health

NQF #: Not Applicable

Data Display: Numeric with 1 decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	> 79.8	> 51.1 to ≤ 79.8	> 25.0 to ≤ 51.1	> 11.6 to ≤ 25.0	≤ 11.6
	PDP	> 24.2	> 10.2 to ≤ 24.2	> 6.2 to ≤ 10.2	> 3.3 to ≤ 6.2	≤ 3.3

Measure: D03 - Appeals Upheld

Title	Description
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Label for Stars: Fairness of Drug Plan's Appeal Decisions, Based on an Independent Reviewer

Label for Data: Fairness of Drug Plan's Appeal Decisions, Based on an Independent Reviewer

Description: How often an Independent Reviewer thought the drug plan's decision to deny an appeal was fair. This includes appeals made by plan members and out-of-network providers. (This rating is not based on how often the plan denies appeals, but rather *how fair* the plan is when they do deny an appeal.)

Metric: This measure is defined as the percent of IRE confirmations of upholding the plans' decisions. This is calculated as:

$$[(\text{Number of cases upheld}) / (\text{Total number of cases reviewed})] * 100.$$

Total number of cases reviewed is defined all cases received by the IRE during the timeframe and receiving a decision before May 1, 2017. The denominator is equal to the number of cases upheld, fully reversed, and partially reversed. Dismissed, remanded, and withdrawn cases are not included in the denominator. Auto-forwarded cases are included, as these are considered to be adverse decisions per Subpart M rules. If a Reopening occurs and is decided prior to May 1, 2017, the Reopened decision is used in place of the Reconsideration decision. Reopenings decided on or after May 1, 2017 are not reflected in these data, the original decision result is used. The results of appeals that occur beyond Level 2 (i.e., Administrative Law Judge or Medicare Appeals Council appeals) are not included in the data. Contracts with no IRE cases reviewed will not receive a score in this measure.

Primary Data Source: Independent Review Entity (IRE)

Data Source Description: Data were obtained from the Independent Review Entity (IRE) contracted by CMS for Part D reconsiderations. The appeals used in this measure are based on the date they were received by the IRE, not the date a decision was reached by the IRE.

Data Source Category: Data Collected by CMS Contractors

Exclusions: Contracts with fewer than 10 cases reviewed by the IRE.

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Measures Capturing Access

Weighting Value: 1.5

CMS Framework Area: Population / community health

NQF #: Not Applicable

Data Display: Percentage with no decimal place

Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	< 56%	≥ 56% to < 71%	≥ 71% to < 79%	≥ 79% to < 89%	≥ 89%
	PDP	< 61%	≥ 61% to < 71%	≥ 71% to < 81%	≥ 81% to < 92%	≥ 92%

Domain: 2 - Member Complaints and Changes in the Drug Plan's Performance

Measure: D04 - Complaints about the Drug Plan

Title	Description
Label for Stars:	Complaints about the Drug Plan (more stars are better because it means fewer complaints)
Label for Data:	Complaints about the Drug Plan (number of complaints for every 1,000 members) (lower numbers are better because it means fewer complaints)
Description:	How many complaints Medicare received about the drug plan.
Metric:	Rate of complaints about the health plan per 1,000 members. For each contract, this rate is calculated as: $\left[\frac{\text{Total number of all complaints logged into the Complaint Tracking Module (CTM)}}{\text{Average Contract enrollment}} \right] * 1,000 * 30 / (\text{Number of Days in Period})$
	Number of Days in Period = 366 for leap years, 365 for all other years.
	- Complaints data are pulled after the end of the measurement timeframe to serve as a snapshot of CTM data. - Enrollment numbers used to calculate the complaint rate were based on the average enrollment for the time period measured for each contract. - A contract's failure to follow CMS' CTM Standard Operating Procedures will not result in CMS' adjustment of the data used for these measures.
Primary Data Source:	Complaints Tracking Module (CTM)
Data Source Description:	Data were obtained from the CTM based on the contract entry date (the date that complaints are assigned or re-assigned to contracts; also known as the contract assignment/reassignment date) for the reporting period specified. The status of any specific complaint at the time the data are pulled stands for use in the reports. Any changes to the complaints data subsequent to the data pull cannot be excluded retroactively. CMS allows for an approximate 6-month "wash out" period to account for any adjustments per CMS' CTM Standard Operating Procedures. Complaint rates per 1,000 enrollees are adjusted to a 30-day basis.
Data Source Category:	CMS Administrative Data
Exclusions:	Some complaints that cannot be clearly attributed to the plan are excluded, please see Attachment B : Complaints Tracking Module Exclusion List.
	Complaint rates are not calculated for contracts with average enrollment of less than 800 enrollees during the measurement period.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Lower is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included
Case-mix adjusted:	No
Weighting Category:	Patients' Experience and Complaints Measure
Weighting Value:	1.5
CMS Framework Area:	Person- and caregiver-centered experience and outcomes
NQF #:	Not Applicable
Data Display:	Numeric with 2 decimal places

Title	Description					
Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes
Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	> 0.86	> 0.53 to ≤ 0.86	> 0.31 to ≤ 0.53	> 0.14 to ≤ 0.31	≤ 0.14
	PDP	> 0.29	> 0.17 to ≤ 0.29	> 0.10 to ≤ 0.17	> 0.03 to ≤ 0.10	≤ 0.03

Measure: D05 - Members Choosing to Leave the Plan

Title	Description
Label for Stars:	Members Choosing to Leave the Plan (more stars are better because it means fewer members are choosing to leave the plan)
Label for Data:	Members Choosing to Leave the Plan (lower percentages are better because it means fewer members choose to leave the plan)
Description:	Percent of plan members who chose to leave the plan.
Metric:	The percent of members who chose to leave the contract comes from disenrollment reason codes in Medicare's enrollment system. The percent is calculated as the number of members who chose to leave the contract between January 1, 2016–December 31, 2016 (numerator) divided by all members enrolled in the contract at any time during 2016 (denominator).
Primary Data Source:	MBDSS
Data Source Description:	Medicare Beneficiary Database Suite of Systems (MBDSS)
Data Source Category:	CMS Administrative Data
Exclusions:	Members who involuntarily left their contract due to circumstances beyond their control are removed from the final numerator, specifically: • Members affected by a contract service area reduction • Members affected by PBP termination • Members affected by LIS reassignments • Members who are enrolled in employer group plans • Members in PBPs that were granted special enrollment exceptions • Members who were passively enrolled into a Demonstration (MMP) • Contracts with less than 1,000 enrollees
General Notes:	This measure includes members with a disenrollment effective date between 1/1/2016 and 12/31/2016 who disenrolled from the contract with any one of the following disenrollment reason codes: 11 - Voluntary Disenrollment through plan 13 - Disenrollment because of enrollment in another Plan 14 - Retroactive 99 - Other (not supplied by beneficiary). The Disenrollment Reasons Survey (DRS) data available in the HPMS plan preview, as part of Medicare Plan Finder and in the CMS downloadable Master Table, are not used in the calculation of this measure. The DRS data are presented in each of the systems for information purposes only.
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Lower is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Not Included

Title	Description					
Case-mix adjusted:	No					
Weighting Category:	Patients' Experience and Complaints Measure					
Weighting Value:	1.5					
CMS Framework Area:	Person- and caregiver-centered experience and outcomes					
NQF #:	Not Applicable					
Data Display:	Percentage with no decimal place					
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes
Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	> 28%	> 18% to ≤ 28%	> 13% to ≤ 18%	> 8% to ≤ 13%	≤ 8%
	PDP	> 15%	> 11% to ≤ 15%	> 7% to ≤ 11%	> 2% to ≤ 7%	≤ 2%

Measure: D06 - Beneficiary Access and Performance Problems

Title	Description
Label for Stars:	Problems Medicare Found in the Plan's Performance (more stars are better because it means fewer serious problems)
Label for Data:	Problems Medicare Found in the Plan's Performance (on a scale from 0 to 100, higher numbers are better because it means fewer serious problems)
Description:	Each year, Medicare checks each plan to see if there are problems with the plan. For example, Medicare checks whether: - Members are having problems getting services, and - Plans are following all of Medicare's rules. Medicare gives the plan a lower score (on a 0 to 100 scale) if there are problems. The score combines how serious the problems are, how many there are, and how directly they affect members. A higher score is better because it means Medicare found less serious or fewer problems, or they affected fewer members directly.
Metric:	This measure is based on CMS' sanctions, civil money penalties (CMP) as well as Compliance Activity Module (CAM) data (this includes: notices of non-compliance, warning letters {with or without business plan}, and ad-hoc corrective action plans (CAP) and the CAP severity). - Contracts' scores are based on a scale of 0-100 points. - The starting score for each contract works as follows: - Contracts with an effective date of 1/1/2017 or later are marked as "Plan too new to be measured." - All contracts with an effective date prior to 1/1/2017 begin with a score 100. - Contracts under sanction anytime during the data time frame are reduced to 0. - The following deductions are taken from contracts whose score is above 0: - For each CMP with beneficiary impact related to access: 40 points. - Contracts that have a CAM score (CAM score calculation is discussed below) are reduced as follows: 0 – 2 CAM Score – 0 points 3 – 9 CAM Score – 20 points 10 – 19 CAM Score – 40 points 20 – 29 CAM Score – 60 points ≥ 30 CAM Score – 80 points Calculation of the CAM score combines the notices of non-compliance, warning letters (with or without business plan) and ad-hoc CAPs and their severity. The formula used is as follows:

Title	Description
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CAM Score = (NC * 1) + (woBP * 3) + (wBP * 4) + (6 * CAP Severity)

Where: NC = Number of Notices of Non-Compliance

woBP = Number of Warning Letters without Business Plan

wBP = Number of Warning Letters with Business Plan

CAP Severity = Sum of the severity of each individual ad-hoc CAP given to a contract during the measurement period. Each CAP is rated as one of the following:

3 – ad-hoc CAP with beneficiary access impact

2 – ad-hoc CAP with beneficiary non-access impact

1 – ad-hoc CAP no beneficiary impact

Primary Data Source: Compliance Activity Module (CAM)

Data Source Description: Ad hoc CAPs and compliance actions that occurred during the 12 month past performance review period between January 1, 2016 and December 31, 2016. For compliance actions, the date the action was issued is used for pulling the data from HPMS. The "date the action was issued" is the date that the compliance letter was sent to the contract, not the date when the issue occurred.

Data Source Category: CMS Administrative Data

Exclusions: CAM entries with the following characteristics were removed prior to processing the BAPP score:

- Ad-hoc CAPs with a topic of "Star Ratings"
- Notices of Non-Compliance with a topic of "Financial Concerns--Solvency, Reporting, Licensure, Other"

Data Time Frame: 01/01/2016 – 12/31/2016

General Trend: Higher is better

Statistical Method: Fixed Cut Points

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Measures Capturing Access

Weighting Value: 1.5

CMS Framework Area: Population / community health

NQF #: Not Applicable

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	≤ 20	40	60	80	100
	PDP	≤ 20	40	60	80	100

Measure: D07 - Drug Plan Quality Improvement

Title	Description																		
Label for Stars:	Improvement (if any) in the Drug Plan's Performance																		
Label for Data:	Improvement (If any) in the Drug Plan's Performance																		
Description:	This shows how much the drug plan's performance has improved or declined from one year to the next year. If a plan receives 1 or 2 stars, it means, on average, the plan's scores declined (have gotten worse). If a plan receives 3 stars, it means, on average, the plan's scores stayed about the same. If a plan receives 4 or 5 stars, it means, on average, the plan's scores improved. Keep in mind that a plan that is already doing well in most areas may not show much improvement. It is also possible that a plan can start with low ratings, show a lot of improvement, and still not be performing very well.																		
Metric:	The numerator is the net improvement, which is a sum of the number of significantly improved measures minus the number of significantly declined measures. The denominator is the number of measures eligible for the improvement measure (i.e., the measures that were included in the 2017 and 2018 Star Ratings for this contract and had no specification changes).																		
Primary Data Source:	Star Ratings																		
Data Source Description:	2017 and 2018 Star Ratings																		
Data Source Category:	Star Ratings																		
Exclusions:	Contracts must have data in at least half of the measures used to calculate improvement to be rated in this measure.																		
General Notes:	Attachment I contains the formulas used to calculate the improvement measure and lists indicating which measures were used.																		
Data Time Frame:	Not Applicable																		
General Trend:	Higher is better																		
Statistical Method:	Clustering																		
Improvement Measure:	Not Included																		
CAI Usage:	Not Included																		
Case-mix adjusted:	No																		
Weighting Category:	Improvement Measure																		
Weighting Value:	5																		
CMS Framework Area:	Population / community health																		
NQF #:	Not Applicable																		
Data Display:	Not Applicable																		
Reporting Requirements:	<table><tr><th>1876 Cost</th><th>Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP</th><th>Local CCP & Regional CCP with SNP</th><th>MSA</th><th>E-PDP & PDP</th><th>E-PFFS, PFFS & R-PFFS</th></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td><td>Yes</td></tr></table>	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS	Yes	Yes	Yes	No	Yes	Yes						
1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS														
Yes	Yes	Yes	No	Yes	Yes														
Cut Points:	<table><tr><th>Type</th><th>1 Star</th><th>2 Stars</th><th>3 Stars</th><th>4 Stars</th><th>5 Stars</th></tr><tr><td>MA-PD</td><td>< -0.184</td><td>≥ -0.184 to < 0.000</td><td>≥ 0.000 to < 0.438</td><td>≥ 0.438 to < 0.605</td><td>≥ 0.605</td></tr><tr><td>PDP</td><td>< -0.125</td><td>≥ -0.125 to < 0.083</td><td>≥ 0.083 to < 0.438</td><td>≥ 0.438 to < 0.600</td><td>≥ 0.600</td></tr></table>	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars	MA-PD	< -0.184	≥ -0.184 to < 0.000	≥ 0.000 to < 0.438	≥ 0.438 to < 0.605	≥ 0.605	PDP	< -0.125	≥ -0.125 to < 0.083	≥ 0.083 to < 0.438	≥ 0.438 to < 0.600	≥ 0.600
Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars														
MA-PD	< -0.184	≥ -0.184 to < 0.000	≥ 0.000 to < 0.438	≥ 0.438 to < 0.605	≥ 0.605														
PDP	< -0.125	≥ -0.125 to < 0.083	≥ 0.083 to < 0.438	≥ 0.438 to < 0.600	≥ 0.600														

Domain: 3 - Member Experience with the Drug Plan

Measure: D08 - Rating of Drug Plan

Title	Description
Label for Stars: Members' Rating of Drug Plan	
Label for Data: Members' Rating of Drug Plan (on a scale from 0 to 100)	
Description: Percent of the best possible score the plan earned from members who rated the prescription drug plan.	
Metric: This case-mix adjusted measure is used to assess members' overall view of their prescription drug plan. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.	

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Questions (question numbers vary depending on survey type):

- Using any number from 0 to 10, where 0 is the worst prescription drug plan possible and 10 is the best prescription drug plan possible, what number would you use to rate your prescription drug plan?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: Not Applicable

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP Cost & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Base Group Cut Points:	Type	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	MA-PD	< 81	≥ 81 to < 83	≥ 83 to < 85	≥ 85 to < 86	≥ 86
	PDP	< 80	≥ 80 to < 81	≥ 81 to < 83	≥ 83 to < 87	≥ 87

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Measure: D09 - Getting Needed Prescription Drugs

Title	Description
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Label for Stars: Ease of Getting Prescriptions Filled When Using the Plan

Label for Data: Ease of Getting Prescriptions Filled When Using the Plan (on a scale from 0 to 100)

Description: Percent of the best possible score the plan earned on how easy it is for members to get the prescription drugs they need using the plan.

Metric: This case-mix adjusted measure is used to assess the ease with which a beneficiary gets the medicines their doctor prescribed. The Consumer Assessment of Healthcare Providers and Systems (CAHPS) score uses the mean of the distribution of responses converted to a scale from 0 to 100. The score shown is the percentage of the best possible score each contract earned.

Primary Data Source: CAHPS

Data Source Description: CAHPS Survey Questions (question numbers vary depending on survey type):

- In the last 6 months, how often was it easy to use your prescription drug plan to get the medicines your doctor prescribed?
- In the last 6 months, how often was it easy to use your prescription drug plan to fill a prescription at your local pharmacy?
- In the last 6 months, how often was it easy to use your prescription drug plan to fill a prescription by mail?

Data Source Category: Survey of Enrollees

General Notes: CAHPS Survey results were sent to each contract's Medicare Compliance Officer in August 2017. These reports provide further explanation of the CAHPS scoring methodology and provide detailed information on why a specific rating was assigned.

Data Time Frame: 03/2017 – 06/2017

General Trend: Higher is better

Statistical Method: Relative Distribution and Significance Testing

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: Yes

Weighting Category: Patients' Experience and Complaints Measure

Weighting Value: 1.5

CMS Framework Area: Person- and caregiver-centered experience and outcomes

NQF #: Not Applicable

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Base Group Cut Points:	Type	Base Group 1	Base Group 2	Base Group 3	Base Group 4	Base Group 5
	MA-PD	< 88	≥ 88 to < 89	≥ 89 to < 90	≥ 90 to < 91	≥ 91
	PDP	< 87	≥ 87 to < 89	≥ 89 to < 90	≥ 90 to < 92	≥ 92

These technical notes show the base group cut points for CAHPS measures; please see the [Attachment K](#) for the CAHPS Methodology for final star assignment rules.

Domain: 4 - Drug Safety and Accuracy of Drug Pricing

Measure: D10 - MPF Price Accuracy

Title	Description
Label for Stars:	Plan Provides Accurate Drug Pricing Information for This Website
Label for Data:	Plan Provides Accurate Drug Pricing Information for This Website (higher scores are better because they mean more accurate prices)
Description:	A score comparing the prices members actually pay for their drugs to the drug prices the plan provided for this website (Medicare's Plan Finder website). (Higher scores are better because they mean the plan provided more accurate prices.)
Metric:	This measure evaluates the accuracy of drug prices posted on the MPF tool. A contract's score is based on the accuracy index.
	The accuracy price index compares point-of-sale PDE prices to plan-reported MPF prices and determines the magnitude of differences found. Using each PDE's date of service, the price displayed on MPF is compared to the PDE price.
	The accuracy index considers both ingredient cost and dispensing fee and measures the amount that the PDE price is higher than the MPF price. Therefore, prices that are overstated on MPF—that is, the reported price is higher than the actual price—will not count against a plan's accuracy score.
	The index is computed as: $(\text{Total amount that PDE is higher than PF} + \text{Total PDE cost}) / (\text{Total PDE cost}).$
	The best possible accuracy index is 1. An index of 1 indicates that a plan did not have PDE prices greater than MPF prices.
	A contract's score is computed using its accuracy index as: $100 - ((\text{accuracy index} - 1) \times 100).$
Primary Data Source:	PDE data, MPF Pricing Files
Data Source Description:	Data used in this measure are obtained from a number of sources: PDE data and MPF Pricing Files are the primary data sources. The HPMS-approved formulary extracts, and data from First DataBank and Medi-span are also used. Post-reconciliation PDE adjustments are not reflected in this measure.
Data Source Category:	Data Collected by CMS Contractors
Exclusions:	A contract with less than 30 PDE claims over the measurement period. PDEs must also meet the following criteria: • Pharmacy number on PDE must appear in MPF pharmacy cost file as either a retail-only pharmacy or a retail and limited access-only pharmacy (PDE with pharmacy numbers reported as non-retail pharmacy types or both retail and mail order/HI/LTC are excluded) • Drug must appear in formulary file and in MPF pricing file • PDE must be a 30 day supply • Date of service must occur at a time that data are not suppressed for the plan on MPF • PDE must not be a compound claim • PDE must not be a non-covered drug
General Notes:	Please see Attachment M : Methodology for Price Accuracy Measure for more information about this measure.
Data Time Frame:	01/01/2016 – 09/30/2016

Title	Description
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General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Not Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Process Measure

Weighting Value: 1

CMS Framework Area: Efficiency and cost reduction

NQF #: Not Applicable

Data Display: Numeric with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	NA	NA	≥ 89 to < 95	≥ 95 to < 99	≥ 99
	PDP	NA	NA	NA	≥ 97 to < 99	≥ 99

Measure: D11 - Medication Adherence for Diabetes Medications

Title	Description
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Label for Stars: Taking Diabetes Medication as Directed

Label for Data: Taking Diabetes Medication as Directed

Description: Percent of plan members with a prescription for diabetes medication who fill their prescription often enough to cover 80% or more of the time they are supposed to be taking the medication. One of the most important ways people with diabetes can manage their health is by taking their medication as directed. The plan, the doctor, and the member can work together to find ways to do this. ("Diabetes medication" means a *biguanide drug*, a *sulfonylurea drug*, a *thiazolidinedione drug*, a *DPP-IV inhibitor*, an *incretin mimetic drug*, a *meglitinide drug*, or an *SGLT2 inhibitor*. Plan members who take insulin are not included.)

Metric: This measure is defined as the percent of Medicare Part D beneficiaries 18 years and older who adhere to their prescribed drug therapy across classes of diabetes medications: biguanides, sulfonylureas, thiazolidinediones, and DiPeptidyl Peptidase (DPP)-IV Inhibitors, incretin mimetics, meglitinides, and sodium glucose cotransporter 2 (SGLT) inhibitors. This percentage is calculated as the number of member-years of enrolled beneficiaries 18 years and older with a proportion of days covered (PDC) at 80 percent or higher across the classes of diabetes medications during the measurement period (numerator) divided by the number of member-years of enrolled beneficiaries 18 years and older with at least two fills of diabetes medication(s) on unique dates of service during the measurement period (denominator).

The PDC is the percent of days in the measurement period "covered" by prescription claims for the same medication or medications in its therapeutic category. Beneficiaries with one or more fills for insulin or with ESRD coverage dates anytime during the measurement period are excluded. Beneficiaries are only included in the measure calculation if the first fill of their medication occurs at least 91 days before the end of the enrollment period.

Title	Description
	The Medication Adherence measure is adapted from the Medication Adherence-Proportion of Days Covered measure that was developed and endorsed by the Pharmacy Quality Alliance (PQA). The PDC Adherence measures are also endorsed by the National Quality Forum (NQF). See the medication list for this measure. The Medication Adherence rate is calculated using the National Drug Code (NDC) list and obsolete NDC date methodology maintained by the PQA. The complete NDC list is posted along with these technical notes. NDCs with obsolete dates are included in the measure calculation if the obsolete dates as reported by PQA are within the period of measurement (measurement year) or within six months prior to the beginning of the measurement year. Primary Data Source: Prescription Drug Event (PDE) data Data Source Description: The data for this measure come from PDE data files submitted by drug plans to Medicare by June 30, 2017 with dates of service from January 1, 2016-December 31, 2016. Only final action PDE claims are used to calculate this measure. PDE claims are limited to members who received at least two prescriptions on unique dates of service for diabetes medication(s). PDE adjustments made post-reconciliation are not reflected in this measure. Additional data sources include the Common Medicare Environment (CME), the Medicare Enrollment Database (EDB), and the Common Working File (CWF). • CME is used for enrollment information. • EDB is used for hospice enrollment and ESRD status (using the ESRD indicator). • CWF is used to identify inpatient stays for PDPs and MA-PDs, and skilled nursing facility stays for PDPs. Data Source Category: Health and Drug Plans Exclusions: Contracts with 30 or fewer enrolled member-years (in the denominator) General Notes: Part D drugs do not include drugs or classes of drugs, or their medical uses, which may be excluded from coverage or otherwise restricted under section 1927(d)(2) of the Act, except for smoking cessation agents. As such, these drugs, which may be included in the medication or NDC lists, are excluded from CMS analyses. Also, the member-years of enrollment adjustment is made by CMS to account for partial enrollment within the benefit year. Enrollment is measured at the episode level, and inclusion in the measure is determined separately for each episode – i.e., to be included for a given episode, the beneficiary must meet the initial inclusion criteria for the measure during that episode. The measure is weighted based on the total number of member years for each episode in which the beneficiary meets the measure criteria. For instance, if a beneficiary is enrolled for a three-month episode, disenrolled for a six-month episode, reenrolled for a three-month episode, and meets the measure criteria during each enrollment episode, s/he will count as 0.5 member years in the rate calculation ($3/12 + 3/12 = 6/12$). The PDC calculation is adjusted for overlapping prescriptions for the same drug which is defined by the active ingredient at the generic name level using the Medi-Span generic ingredient name. The calculation also adjusts for Part D beneficiaries' stays in inpatient (IP) settings, hospice enrollments, and stays in skilled nursing facilities (SNFs). The SNF adjustment only applies to PDPs because SNF data are not currently available for MA-PDs. Please see Attachment L: Medication Adherence Measure Calculations for more information about these calculation adjustments. When available, beneficiary death date from the CME is the end date of a beneficiary's measurement period. Data Time Frame: 01/01/2016 – 12/31/2016

Title	Description
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General Trend: Higher is better

Statistical Method: Clustering

Improvement Measure: Included

CAI Usage: Not Included

Case-mix adjusted: No

Weighting Category: Intermediate Outcome Measure

Weighting Value: 3

CMS Framework Area: Clinical care

NQF #: 0541

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	< 72%	≥ 72% to < 78%	≥ 78% to < 81%	≥ 81% to < 86%	≥ 86%
	PDP	< 76%	≥ 76% to < 80%	≥ 80% to < 84%	≥ 84% to < 86%	≥ 86%

Measure: D12 - Medication Adherence for Hypertension (RAS antagonists)

Title	Description
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Label for Stars: Taking Blood Pressure Medication as Directed

Label for Data: Taking Blood Pressure Medication as Directed

Description: Percent of plan members with a prescription for a blood pressure medication who fill their prescription often enough to cover 80% or more of the time they are supposed to be taking the medication. One of the most important ways people with high blood pressure can manage their health is by taking medication as directed. The plan, the doctor, and the member can work together to do this. ("Blood pressure medication" means an *ACE (angiotensin converting enzyme) inhibitor*, an *ARB (angiotensin receptor blocker)*, or a *direct renin inhibitor* drug.

Metric: This measure is defined as the percent of Medicare Part D beneficiaries 18 years and older who adhere to their prescribed drug therapy for renin angiotensin system (RAS) antagonists: angiotensin converting enzyme inhibitor (ACEI), angiotensin receptor blocker (ARB), or direct renin inhibitor medications. This percentage is calculated as the number of member-years of enrolled beneficiaries 18 years and older with a proportion of days covered (PDC) at 80 percent or higher for RAS antagonist medications during the measurement period (numerator) divided by the number of member-years of enrolled beneficiaries 18 years and older with at least two blood pressure medications fills on unique dates of service during the measurement period (denominator).

The PDC is the percent of days in the measurement period "covered" by prescription claims for the same medication or another in its therapeutic category. Beneficiaries with ESRD coverage dates or that received one or more prescriptions for sacubitril/valsartan anytime during the measurement period are excluded. Beneficiaries are only included in the measure calculation if the first fill of their medication occurs at least 91 days before the end of the enrollment period.

The Part D Medication Adherence measure is adapted from the Medication Adherence-Proportion of Days Covered measure that was developed and endorsed by the

Title	Description
	Pharmacy Quality Alliance (PQA). The PDC Adherence measures are also endorsed by the National Quality Forum (NQF). See the medication list for this measure. The Part D Medication Adherence rate is calculated using the National Drug Code (NDC) list and obsolete NDC date methodology maintained by the PQA. The complete NDC list is posted along with these technical notes. NDCs with obsolete dates are included in the measure calculation if the obsolete dates as reported by PQA are within the period of measurement (measurement year) or within six months prior to the beginning of the measurement year. Primary Data Source: Prescription Drug Event (PDE) data Data Source Description: The data for this measure come from PDE data files submitted by drug plans to Medicare by June 30, 2017 with dates of service from January 1, 2016-December 31, 2016. Only final action PDE claims are used to calculate this measure. PDE claims are limited to members who received at least two prescriptions on unique dates of service for RAS antagonist medication(s). PDE adjustments made post-reconciliation are not reflected in this measure. Additional data sources include the Common Medicare Environment (CME), the Medicare Enrollment Database (EDB), and the Common Working File (CWF). • CME is used for enrollment information. • EDB is used for hospice enrollment and ESRD status (using the ESRD indicator). • CWF is used to identify inpatient stays for PDPs and MA-PDs, and skilled nursing facility stays for PDPs. Data Source Category: Health and Drug Plans Exclusions: Contracts with 30 or fewer enrolled member-years (in the denominator) General Notes: Part D drugs do not include drugs or classes of drugs, or their medical uses, which may be excluded from coverage or otherwise restricted under section 1927(d)(2) of the Act, except for smoking cessation agents. As such, these drugs, which may be included in the medication or NDC lists, are excluded from CMS analyses. Also, the member-years of enrollment adjustment is made by CMS to account for partial enrollment within the benefit year. Enrollment is measured at the episode level, and inclusion in the measure is determined separately for each episode – i.e., to be included for a given episode, the beneficiary must meet the initial inclusion criteria for the measure during that episode. The measure is weighted based on the total number of member years for each episode in which the beneficiary meets the measure criteria. For instance, if a beneficiary is enrolled for a three-month episode, disenrolled for a six-month episode, reenrolled for a three-month episode, and meets the measure criteria during each enrollment episode, s/he will count as 0.5 member years in the rate calculation ($3/12 + 3/12 = 6/12$). The PDC calculation is adjusted for overlapping prescriptions for the same drug which is defined by active ingredient at the generic name level using the Medi-Span generic ingredient name. The calculation also adjusts for Part D beneficiaries' stays in inpatient (IP) settings, hospice enrollments, and stays in skilled nursing facilities (SNFs). The SNF adjustment only applies to PDPs because SNF data are not currently available for MA-PDs. Please see Attachment L: Medication Adherence Measure Calculations for more information about these calculation adjustments. When available, beneficiary death date from the CME is the end date of a beneficiary's measurement period. Data Time Frame: 01/01/2016 – 12/31/2016 General Trend: Higher is better

Title	Description				
Statistical Method:	Clustering				
Improvement Measure:	Included				
CAI Usage:	Included				
Case-mix adjusted:	No				
Weighting Category:	Intermediate Outcome Measure				
Weighting Value:	3				
CMS Framework Area:	Clinical care				
NQF #:	0541				
Data Display:	Percentage with no decimal place				
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA & PDP	E-PDP & PDP
	Yes	Yes	Yes	No	Yes
Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars
	MA-PD	< 74%	≥ 74% to < 78%	≥ 78% to < 82%	≥ 82% to < 85%
	PDP	< 78%	≥ 78% to < 83%	≥ 83% to < 86%	≥ 86% to < 89%

Measure: D13 - Medication Adherence for Cholesterol (Statins)

Title	Description
Label for Stars:	Taking Cholesterol Medication as Directed
Label for Data:	Taking Cholesterol Medication as Directed
Description:	Percent of plan members with a prescription for a cholesterol medication (a <i>statin drug</i>) who fill their prescription often enough to cover 80% or more of the time they are supposed to be taking the medication. One of the most important ways people with high cholesterol can manage their health is by taking medication as directed. The plan, the doctor, and the member can work together to do this.
Metric:	This measure is defined as the percent of Medicare Part D beneficiaries 18 years and older who adhere to their prescribed drug therapy for statin cholesterol medications. This percentage is calculated as the number of member-years of enrolled beneficiaries 18 years and older with a proportion of days covered (PDC) at 80 percent or higher for statin cholesterol medication(s) during the measurement period (numerator) divided by the number of member-years of enrolled beneficiaries 18 years and older with at least two statin cholesterol medication fills on unique dates of service during the measurement period (denominator).
	The PDC is the percent of days in the measurement period “covered” by prescription claims for the same medication or another in the therapeutic category. Beneficiaries are only included in the measure calculation if the first fill of their medication occurs at least 91 days before the end of the enrollment period.
	The Medication Adherence measure is adapted from the Medication Adherence-Proportion of Days Covered measure that was developed and endorsed by the Pharmacy Quality Alliance (PQA). The PDC Adherence measures are also endorsed by the National Quality Forum (NQF).
	See the medication list for this measure. The Medication Adherence rate is calculated using the National Drug Code (NDC) list and obsolete NDC date methodology maintained by the PQA. The complete NDC list is posted along with these technical notes. NDCs with obsolete dates are included in the measure calculation if the obsolete

Title	Description
Primary Data Source: Prescription Drug Event (PDE) data Data Source Description: Data Source Category: Health and Drug Plans Exclusions: General Notes: Data Time Frame: General Trend: Statistical Method: Improvement Measure: CAI Usage: Case-mix adjusted: Weighting Category: Weighting Value:	dates as reported by PQA are within the period of measurement (measurement year) or within six months prior to the beginning of the measurement year. The data for this measure come from PDE data files submitted by drug plans to Medicare by June 30, 2017 with dates of service from January 1, 2016-December 31, 2016. Only final action PDE claims are used to calculate this measure. PDE claims are limited to members who received at least two prescriptions on unique dates of service for statin drug(s). PDE adjustments made post-reconciliation are not reflected in this measure. Additional data sources include the Common Medicare Environment (CME), the Medicare Enrollment Database (EDB), and the Common Working File (CWF). • CME is used for enrollment information. • EDB is used for hospice enrollment. • CWF is used to identify inpatient stays for PDPs and MA-PDs, and skilled nursing facility stays for PDPs. Contracts with 30 or fewer enrolled member-years (in the denominator) Part D drugs do not include drugs or classes of drugs, or their medical uses, which may be excluded from coverage or otherwise restricted under section 1927(d)(2) of the Act, except for smoking cessation agents. As such, these drugs, which may be included in the medication or NDC lists, are excluded from CMS analyses. Also, the member-years of enrollment adjustment is made by CMS to account for partial enrollment within the benefit year. Enrollment is measured at the episode level, and inclusion in the measure is determined separately for each episode – i.e., to be included for a given episode, the beneficiary must meet the initial inclusion criteria for the measure during that episode. The measure is weighted based on the total number of member years for each episode in which the beneficiary meets the measure criteria. For instance, if a beneficiary is enrolled for a three-month episode, disenrolled for a six-month episode, reenrolled for a three-month episode, and meets the measure criteria during each enrollment episode, s/he will count as 0.5 member years in the rate calculation ($3/12 + 3/12 = 6/12$). The PDC calculation is adjusted for overlapping prescriptions for the same drug which is defined by active ingredient at the generic name level using the Medi-Span generic ingredient name. The calculation also adjusts for Part D beneficiaries' stays in inpatient (IP) settings, hospice enrollments, and stays in skilled nursing facilities (SNFs). The SNF adjustment only applies to PDPs because SNF data are not currently available for MA-PDs. Please see Attachment L: Medication Adherence Measure Calculations for more information about these calculation adjustments. When available, beneficiary death date from the CME is the end date of a beneficiary's measurement period. 01/01/2016 – 12/31/2016 Higher is better Clustering Included Not Included No Intermediate Outcome Measure 3

Title	Description					
CMS Framework Area:	Clinical care					
NQF #:	0541					
Data Display:	Percentage with no decimal place					
Reporting Requirements:	1876 Cost	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes
Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	< 66%	≥ 66% to < 76%	≥ 76% to < 80%	≥ 80% to < 85%	≥ 85%
	PDP	< 73%	≥ 73% to < 79%	≥ 79% to < 82%	≥ 82% to < 86%	≥ 86%

Measure: D14 - MTM Program Completion Rate for CMR

Title	Description
Label for Stars:	Members Who Had a Pharmacist (or Other Health Professional) Help them Understand and Manage Their Medications
Label for Data:	Members Who Had a Pharmacist (or Other Health Professional) Help them Understand and Manage Their Medications
Description:	Some plan members are in a program (called a <i>Medication Therapy Management</i> program) to help them manage their drugs. The measure shows how many members in the program had an assessment of their medications from the plan. The assessment includes a discussion between the member and a pharmacist (or other health care professional) about all of the member's medications. The member also receives a written summary of the discussion, including an action plan that recommends what the member can do to better understand and use his or her medications. Note: If you would like more information about your plan's Medication Therapy Management program, including whether you might be eligible for the program: Return to Star Ratings information page, scroll up to the top of the page, and then click on the "Manage Drugs" tab.
Metric:	This measure is defined as the percent of Medication Therapy Management (MTM) program enrollees who received a Comprehensive Medication Review (CMR) during the reporting period.
	Numerator = Number of beneficiaries from the denominator who received a CMR at any time during their period of MTM enrollment in the reporting period.
	Denominator = Number of beneficiaries who were at least 18 years or older as of the beginning of the reporting period and who were enrolled in the MTM program for at least 60 days during the reporting period. Only those beneficiaries who meet the contracts' specified targeting criteria per CMS – Part D requirements pursuant to §423.153(d) of the regulations at any time in the reporting period are included in this measure. Beneficiaries who were in hospice at any point during the reporting period are excluded.
	A beneficiary's MTM eligibility, receipt of CMRs, etc., is determined for each contract he/she was enrolled in during the measurement period. Similarly, a contract's CMR completion rate is calculated based on each of its eligible MTM enrolled beneficiaries. For example, a beneficiary must meet the inclusion criteria for the contract to be included in the contract's CMR rate. A beneficiary who is enrolled in two different contracts' MTM programs for 30 days each is therefore excluded from both contracts' CMR rates.

Title	Description
	Beneficiaries may be enrolled in MTM based on the contracts' specified targeting criteria per CMS – Part D requirements and/or based on expanded, other plan-specific targeting criteria. Beneficiaries who were initially enrolled in MTM due to other plan-specific (expanded) criteria and then later met the contracts' specified targeting criteria per CMS – Part D requirements at any time in the reporting period are included in this measure. In these cases, a CMR received after the date of MTM enrollment but before the date the beneficiary met the specified targeting criteria per CMS – Part D requirements are included.
Primary Data Source:	Part D Plan Reporting
Data Source Description:	Additional data sources used to calculate the measure: Medicare Enrollment Database (EDB) File.
	Data were reported by contracts to CMS per the Part D Reporting Requirements. Validation of these data was performed retrospectively during the 2017 Data Validation cycle.
Data Source Category:	Health and Drug Plans
Exclusions:	Contracts with an effective termination date on or before the deadline to submit data validation results to CMS (June 30, 2017) are excluded and listed as "No data available."
	MTM CMR rates are not provided for contracts that did not score at least 95% on data validation for the Medication Therapy Management Program reporting section or were not compliant with data validation standards/sub-standards for any the following Medication Therapy Management Program data elements: • HICN or RRB Number (Element B) • Met the specified targeting criteria per CMS – Part D requirements (Element G) • Date of MTM program enrollment (Element I) • Date met the specified targeting criteria per CMS – Part D requirements (Element J) • Date of MTM program opt-out, if applicable (Element K) • Received annual CMR with written summary in CMS standardized format (Element O) • Date(s) of CMR(s) with written summary in CMS standardized format (Element Q) MTM CMR rates are also not provided for contracts that failed to submit their MTM file and pass system validation by the reporting deadline or who had a missing data validation score for MTM. Contracts excluded from the MTM CMR Rates due to data validation issues are shown as "CMS identified issues with this plan's data." Contracts can view their data validation results in HPMS (https://hpms.cms.gov/). From the home page, select Monitoring Plan Reporting Data Validation. If you cannot see the Plan Reporting Data Validation module, contact CMSHPMS_Access@cms.hhs.gov. Additionally, contracts must have 31 or more enrollees in the denominator in order to have a calculated rate. Contracts with fewer than 31 eligible enrollees are listed as "No data available."
Data Time Frame:	01/01/2016 – 12/31/2016
General Trend:	Higher is better
Statistical Method:	Clustering
Improvement Measure:	Included
CAI Usage:	Included
Case-mix adjusted:	No
Weighting Category:	Process Measure

Title	Description
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Weighting Value: 1

CMS Framework Area: Clinical care

NQF #: Not Applicable

Data Display: Percentage with no decimal place

Reporting Requirements:	1876	Local CCP, E-CCP, R-CCP & Regional CCP w/o SNP	Local CCP & Regional CCP with SNP	MSA	E-PDP & PDP	E-PFFS, PFFS & R-PFFS
	Yes	Yes	Yes	No	Yes	Yes

Cut Points:	Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
	MA-PD	< 33%	≥ 33% to < 51%	≥ 51% to < 59%	≥ 59% to < 75%	≥ 75%
	PDP	< 17%	≥ 17% to < 31%	≥ 31% to < 39%	≥ 39% to < 53%	≥ 53%

Attachment A: CAHPS and HOS Case-Mix Adjustment

CAHPS Case-Mix Adjustment

The CAHPS measures are case-mix adjusted to take into account the mix of enrollees. Case-mix variables include dual eligibility and education among other variables. The table below includes the case-mix variables and shows the case-mix coefficients for each of the CAHPS measures included in the Star Ratings. The coefficients indicate how much higher or lower people with a given characteristic tend to respond compared to others with the baseline value for that characteristic, on the 0-100 scale used in consumer reports.

For example, for the measure "Customer Service," the coefficient for "age 80-84" is +0.0029, indicating that respondents in that age range tend to score their plans 0.0029 point higher than otherwise similar people in the 70-74 age range (the baseline or reference category). Similarly, Medicaid dual eligibles tend to respond -0.0077 points lower on this item than otherwise similar non-duals. Contracts with higher proportions of beneficiaries who are in the 80-84 age range will be adjusted downwards on this measure to compensate for the positive response tendency of their respondents. Similarly, contracts with higher proportions of respondents who are Medicaid dual eligibles will be adjusted upwards on this measure to compensate for their respondents' negative response tendency. The case-mix patterns are not always consistent across measures.

The composites consist of multiple items, each of which is adjusted separately before combining the adjusted scores into a composite score. In the tables we report the average of the coefficients for these several items, for each of the categories (rows) of the table, as a summary of the adjustment for the composite.

Table A-1: Part C CAHPS Measures

Predictor	C03: Annual Flu Vaccine	C22: Getting Needed Care (Comp)	C23: Getting Appointments and Care Quickly (Comp)	C24: Customer Service (Comp)	C25: Rating of Health Care Quality	C26: Rating of Health Plan	C27: Care Coordination (Comp)
Age: 64 or under	N/A	-0.0309	-0.0513	-0.0012	-0.1779	-0.2362	-0.0300
Age: 65 - 69	N/A	-0.0382	-0.0187	-0.0029	-0.0947	-0.0574	-0.0313
Age: 75 - 79	N/A	-0.0070	0.0114	-0.0163	-0.0325	0.0552	-0.0150
Age: 80 - 84	N/A	-0.0035	-0.0051	0.0029	0.0020	0.1512	-0.0331
Age: 85 and older	N/A	-0.0148	0.0121	-0.0141	0.0077	0.1916	-0.0414
Less than an 8th grade education	N/A	-0.0566	-0.0414	-0.0141	-0.0513	0.1072	-0.0265
Some high school	N/A	-0.0191	-0.0100	-0.0193	0.0507	0.0915	0.0104
Some college	N/A	-0.0343	-0.0182	-0.0473	-0.0557	-0.1222	-0.0412
College graduate	N/A	-0.0309	-0.0128	-0.0604	-0.1199	-0.2249	-0.0416
More than a bachelor's degree	N/A	-0.0557	-0.0357	-0.1333	-0.2005	-0.3240	-0.0479
General health rating: excellent	N/A	0.0422	0.0777	0.0367	0.3574	0.3636	0.0413
General health rating: very good	N/A	0.0391	0.0518	0.0226	0.1938	0.1738	0.0208
General health rating: fair	N/A	-0.0516	-0.0183	-0.0291	-0.2786	-0.1224	-0.0401
General health rating: poor	N/A	-0.1029	-0.0729	-0.0462	-0.5188	-0.3475	-0.0808
Mental health rating: excellent	N/A	0.1725	0.1287	0.1335	0.4462	0.3208	0.1261
Mental health rating: very good	N/A	0.0710	0.0569	0.0484	0.1768	0.1343	0.0447
Mental health rating: fair	N/A	-0.0522	-0.0185	-0.0009	-0.1271	-0.1170	-0.0505
Mental health rating: poor	N/A	-0.1051	-0.0325	-0.0905	-0.4554	-0.5123	-0.0903
Proxy helped	N/A	0.0157	-0.0451	-0.0125	-0.0945	-0.0650	0.0130
Proxy answered	N/A	0.0412	0.0332	0.0035	0.1215	-0.0205	0.0328
Medicaid dual eligible	N/A	-0.0151	0.0001	-0.0077	0.0300	0.2654	-0.0117
Low-income subsidy (LIS)	N/A	-0.0169	0.0024	-0.0076	-0.0783	0.1352	0.0009
Chinese Language	N/A	0.0779	-0.0527	-0.0498	-0.1288	-0.6225	0.0390

Table A-2: Part D CAHPS Measures

Predictor	MA-PD D08: Rating of Drug Plan	MA-PD D09: Getting Needed Prescription Drugs (Comp)	PDP D08: Rating of Drug Plan	PDP D09: Getting Needed Prescription Drugs (Comp)
Age: 64 or under	-0.2632	-0.0569	-0.2960	-0.0042
Age: 65 - 69	-0.1173	-0.0375	-0.1257	-0.0614
Age: 75 - 79	0.0748	0.0011	0.1338	-0.0041
Age: 80 - 84	0.1935	0.0013	0.1942	-0.0157
Age: 85 and older	0.3037	0.0029	0.3513	0.0247
Less than an 8th grade education	0.0386	-0.0634	0.1293	0.0249
Some high school	0.0700	-0.0087	0.0744	-0.0321
Some college	-0.2052	-0.0415	-0.2391	-0.0508
College graduate	-0.2639	-0.0302	-0.3140	-0.0517
More than a bachelor's degree	-0.3860	-0.0737	-0.5384	-0.1463
General health rating: excellent	0.2642	0.0194	0.2086	0.0718
General health rating: very good	0.1341	0.0297	0.2398	0.0746
General health rating: fair	-0.1628	-0.0368	-0.2138	-0.0662
General health rating: poor	-0.3174	-0.0714	-0.2253	-0.0546
Mental health rating: excellent	0.3575	0.1077	-0.0134	-0.0175
Mental health rating: very good	0.1677	0.0443	-0.0103	0.0070
Mental health rating: fair	-0.0690	-0.0455	-0.0102	-0.0520
Mental health rating: poor	-0.3416	-0.0898	-0.0701	-0.1312
Proxy helped	-0.1081	0.0151	-0.1689	-0.0412
Proxy answered	-0.0229	0.0104	-0.1371	0.0235
Medicaid dual eligible	0.5530	0.0344	0.5459	-0.0526
Low-income subsidy (LIS)	0.4569	0.0038	0.4959	-0.0311
Chinese Language	-0.3198	-0.0029	0.0000	0.0000

HOS 2014-2016 Cohort 17 Case-Mix Adjustment

The longitudinal outcomes for the Medicare Health Outcomes Survey (HOS) 2014-2016 Cohort 17 *Performance Measurement* analysis are based on risk-adjusted mortality rates, changes in physical health as measured by the physical component summary (PCS) score, and changes in mental health as measured by the mental component summary (MCS) score for the participating Medicare Advantage Organizations (MAOs). For reporting purposes, death and PCS outcomes are combined into one overall measure of change in physical health. Thus, there are two primary outcomes: (1) Alive and PCS Better + Same (vs. PCS Worse or Death) and (2) MCS Better + Same (vs. MCS Worse). For the Medicare Part C Star Ratings, the primary outcomes are reported as the percentage of respondents within an MAO who are “*Improving or Maintaining Physical Health*” (C04), and the percentage within an MAO who are “*Improving or Maintaining Mental Health*” (C05) over the two-year period, after adjustment for case-mix.

The analysis of death outcomes for the HOS performance measurement included beneficiaries who are 65 or older at baseline, completed the HOS at baseline with a calculable PCS or MCS score, and whose MAO participated in the HOS at follow up. Beneficiaries are included in the analysis of PCS and MCS change scores if they are age 65 or older at baseline, alive at follow up, enrolled in their original MAO at follow up, and completed the HOS with calculable PCS and MCS scores at baseline and follow up. HOS outcomes are analyzed by calculating the national averages, and the differences between actual and expected contract-level results for death, PCS, and MCS over two years. The expected results are adjusted for the case-mix of beneficiaries within an MAO to control for pre-existing baseline differences across MAOs with respect to covariates, such as baseline measures of sociodemographic characteristics, chronic medical conditions, and functional health status. The PCS results are combined with the percentage remaining alive in the MAO. An adjusted contract-level percentage for each of the two primary outcomes is calculated by combining the national average and the MAO difference score, using a logit transformation.

Tables A3-A5 below include a series of 12 different multivariate logistic regression models (six death models, three PCS models, and three MCS models) that are used to case-mix adjust HOS outcomes, and to calculate expected outcomes for each beneficiary. For each of the three types of models (death, PCS, and MCS), the first model (Model A) is used for those beneficiaries with complete data and the other alternative models are used for those respondents with different patterns of missing data for the model outcome. To address the issue of missing data, a series of cascading logistic regression models was developed. Alternative death, PCS, and MCS models allow for missing income, education, marital status, and homeownership, which generally are the most commonly missing variables. These models also allow for the CMS administrative (rather than self-reported) race/ethnicity, which is non-missing for all beneficiaries. In addition, the alternative death models allow for different patterns of missing across the baseline chronic medical conditions and functional status items.

The coefficients in the tables report the log-odds for beneficiaries with a given characteristic having the expected outcome compared to beneficiaries in the reference category for that characteristic, controlling for all other model characteristics. In Table A-4: HOS PCS Better + Same Model Covariates, the Model A coefficient for “Female” is -0.413, indicating a lower probability of PCS Better + Same for female compared to male respondents (the reference category), who otherwise have the same demographic and health characteristics. However, the coefficient for age and gender interaction in the PCS Better + Same Model A is 0.006, indicating a very small positive difference in the expected outcome between females and males of the same age. It is important to note that the case-mix patterns are not always consistent across the 12 different logistic regression models.

More information about the calculation of HOS outcomes at the beneficiary and MAO contract levels is available on the HOS website at www.HOSonline.org.

Table A-3a: HOS Death Model Covariates – Baseline Demographics

Death Model Covariates - Baseline Demographics	Model A	Model B	Model C	Model D	Model E	Model F
Constant	-6.256	-6.290	-6.405	-4.045	-4.336	-7.963
Age (linear)	0.056	0.056	0.055	0.059	0.063	0.069
Age 75+	0.031	0.028	0.032	0.030	0.027	0.044
Age 85+	0.026	0.029	0.026	0.029	0.026	0.019
Age and gender interaction	-0.003	-0.004	0.000	0.003	0.003	0.002
Female	-0.275	-0.164	-0.394	-0.685	-0.742	-0.632
Married	-0.196	-0.171				
Hispanic only	-0.493	-0.485				
Asian only	-0.739	-0.719				
Native Hawaiian or Pacific Islander only	0.021	-0.210				
Black only	-0.211	-0.248				
American Indian or Alaskan Native only	-0.026	0.061				
Multiracial	0.014	0.001				
CMS Hispanic only			-0.645	-0.611	-0.662	-0.580
CMS Asian or Pacific Islander only			-0.715	-0.666	-0.700	-0.738
CMS Black only			-0.168	-0.174	-0.169	-0.152
CMS American Indian or Alaskan Native only			0.064	0.093	0.155	0.323
CMS other race only			-0.538	-0.515	-0.527	-0.587
CMS unknown race only			-0.636	-0.662	-0.632	-0.769
Receive Medicaid	-0.046	-0.044	0.151	0.294	0.305	0.681
Eligible for SSI	0.039	0.011	0.048	0.106	0.081	0.794
Home owner	-0.173	-0.156				
High school graduate or greater	-0.021	-0.042				
Household income <\$20,000	0.068	0.071				

Table A-3b: HOS Death Model Covariates – Baseline Functional Status

Death Model Covariates –Baseline Functional Status	Model A	Model B	Model C	Model D	Model E	Model F
One-item measure of General Health compared to others	0.252	0.252	0.254			
Physical Functioning/Activities of Daily Living Scale	-0.020	-0.019	-0.021			
General Health item	0.162	0.178	0.165			
Physical Functioning item (limitations in moderate activities)	-0.013	-0.031	-0.024			
Physical Functioning item (limitations climbing several flights of stairs)	0.057	0.058	0.072			
Role Physical item (accomplished less than would like)	0.017	0.029	0.022			
Role-Physical item (limited in the kind of work or other activities)	0.035	0.044	0.045			
Role-Emotional item (accomplished less than would like)	0.001	-0.012	0.009			
Role-Emotional item (did not do work or other activities as carefully)	-0.014	-0.015	-0.025			
Bodily Pain item (pain interfered with normal work)	-0.080	-0.080	-0.090			
Mental Health item (felt calm and peaceful)	-0.033	-0.036	-0.029			
Vitality item (had a lot of energy)	0.063	0.068	0.070			
Mental Health item (felt downhearted and blue)	0.017	0.007	0.009			
Social Functioning item (health interfered with social activities)	-0.107	-0.090	-0.080			

Table A-3c: HOS Death Model Covariates – Baseline Chronic Medical Conditions

HOS Death Model Covariates – Baseline Chronic Medical Conditions	Model A	Model B	Model C	Model D	Model E	Model F
Hypertension	-0.012					
Angina/coronary artery disease	0.014					
Congestive heart failure	0.511					
Myocardial infarction	0.108					
Other heart conditions	0.088					
Stroke	0.131					
Pulmonary disease	0.341					
Gastrointestinal disorders	-0.205					
Arthritis of hip or knee	-0.340					
Arthritis of hand or wrist	-0.184					
Sciatica	-0.294					
Diabetes	0.120					
Depression	-0.076					
Any cancer other than skin cancer	0.472					
Colon cancer treatment	0.428					
Breast cancer treatment	0.099					
Prostate cancer treatment	-0.281					
Lung cancer treatment	1.125					
Large positive disease groups ¹		2.008	1.943	1.927		
Medium positive disease groups ²		0.674	0.691	0.836		
Unchanged disease groups ³		-0.093	-0.103	-0.100		
Negative disease groups ⁴		-1.306	-1.310	-1.450		

Table A-3d: HOS Death Model Covariates – Baseline Summary Scores

HOS Death Model Covariates – Baseline Summary Scores	Model A	Model B	Model C	Model D	Model E	Model F
Baseline PCS				-0.048	-0.048	
Baseline MCS				-0.026	-0.025	

¹ congestive heart failure, any cancer, lung cancer, and colon/rectal cancer² pulmonary disease, stroke, diabetes, and myocardial infarction³ angina/coronary artery disease, breast cancer, depression, hypertension and other heart conditions⁴ gastrointestinal disorders, arthritis [both types], sciatica, and prostate cancer

Table A-4: HOS PCS Better + Same Model Covariates

PCS Better + Same Model Covariates	Model A	Model B	Model C
Constant	2.038	1.887	1.964
Age (linear)	-0.015	-0.013	-0.012
Age 75+	-0.021	-0.024	-0.026
Age 85+	0.011	0.019	0.018
Age and gender interaction	0.006	0.004	0.003
Female	-0.413	-0.294	-0.234
Married	0.034	0.053	
Hispanic only	-0.005	-0.012	
Asian only	0.053	0.057	
Native Hawaiian or Pacific Islander only	-0.067	0.003	
Black only	0.000	-0.023	
American Indian or Alaskan Native only	0.107	0.124	
Multiracial	-0.142	-0.094	
CMS Hispanic only			-0.072
CMS Asian or Pacific Islander only			0.064
CMS Black only			-0.067
CMS American Indian or Alaskan Native only			-0.045
CMS other race only			-0.006
CMS unknown race only			0.253
Receive Medicaid	0.001	-0.023	-0.084
Eligible for SSI	-0.038	-0.048	-0.062
Home owner	0.073	0.084	
High school graduate or greater	0.056	0.081	
Household income <\$20,000	-0.084		

Table A-5: HOS MCS Better + Same Model Covariates

MCS Better + Same Model Covariates	Model A	Model B	Model C
Constant	1.581	1.645	2.052
Age (linear)	0.003	0.000	-0.001
Age 75+	-0.037	-0.035	-0.035
Age 85+	0.006	0.009	0.009
Age and gender interaction	0.002	0.001	0.002
Female	-0.166	-0.131	-0.148
Married	-0.135	-0.100	
Hispanic only	-0.239	-0.273	
Asian only	-0.084	-0.106	
Native Hawaiian or Pacific Islander only	-0.142	-0.288	
Black only	-0.101	-0.137	
American Indian or Alaskan Native only	-0.054	-0.174	
Multiracial	-0.268	-0.295	
CMS Hispanic only			-0.341
CMS Asian or Pacific Islander only			-0.145
CMS Black only			-0.146
CMS American Indian or Alaskan Native only			-0.095
CMS other race only			-0.073
CMS unknown race only			0.023
Receive Medicaid	-0.111	-0.201	-0.376
Eligible for SSI	-0.253	-0.295	-0.310
Home owner	0.165	0.202	
High school graduate or greater	0.248	0.281	
Household income <\$20,000	-0.219		

Attachment B: Complaints Tracking Module Exclusion List

Some complaints that cannot be clearly attributed to the plan are excluded; these include the following complaint types: enrollment or plan change issues outside available enrollment period; disenrollment due to loss of Medicare entitlement; IRMAA equitable relief or good cause requests; plan premium good cause requests; contractor or partner performance; program integrity issues; and Medicaid eligibility issues. Complaints flagged as CMS issue or requiring CMS review will also be excluded.

Table B-1 contains the exclusions applied to the CTM based on the revised categories and subcategories that were applied between September 25, 2010 and March 17, 2017

Table B-1: Exclusions between September 25, 2010 and March 17, 2017

Category ID	Category Description	Subcategory ID	Subcategory Description	Effective Date
11	Enrollment/Disenrollment	16	Facilitated/Auto Enrollment issues	September 25, 2010
		18	Enrollment Exceptions (EE)	
13	Pricing/Co-Insurance	06	Beneficiary has lost LIS Status/Eligibility or was denied LIS	
		16	Part D IRMAA	
30	Beneficiary Needs Assistance with Acquiring Medicaid Eligibility Information	01	Beneficiary Needs Assistance with Acquiring Medicaid Eligibility Information	
		90	Other Beneficiary Needs Assistance with Acquiring Medicaid Eligibility Information Issue	
38	Contractor/Partner Performance	90	Other Contractor/Partner Performance	December 16, 2011
26	Contractor/Partner Performance	90	Other Contractor/Partner Performance	
44	Equitable Relief/Good Cause Requests	01	Good Cause - Disenrollment for Failure to Pay Premiums	
		90	Other Equitable Relief/Good Cause Request	
45	Equitable Relief/Good Cause Requests	01	Good Cause - Disenrollment for Failure to Pay Premiums	
		02	Refund/Non-Receipt Part D IRMAA	
		03	Good Cause Part D IRMAA	
		04	Equitable Relief Part D IRMAA	
		90	Other Equitable Relief/Good Cause Request	
49	Contractor/Partner Performance	90	Other Contractor/Partner Performance	
50	Contractor/Partner Performance	90	Other Contractor/Partner Performance	
03	Enrollment/ Disenrollment	11	Disenrollment Due to Loss of Entitlement	June 1, 2013
11	Enrollment/ Disenrollment	24	Disenrollment Due to Loss of Entitlement	

Note: Program Integrity complaints, which are in the CTM but not viewable by plans, are excluded as well.

Table B-2 contains the categories and subcategories that are excluded if they were entered into the CTM prior to current exclusion criteria.

Table B-2: Exclusions prior to September 25, 2010

Category ID	Category Description	Subcategory ID	Subcategory Description
03	Enrollment/Disenrollment	06	Enrollment Exceptions (EE)
		07	Retroactive Disenrollment (RD)
		09	Enrollment Reconciliation - Dissatisfied with Decision
		10	Retroactive Enrollment (RE)
		12	Missing Medicaid/ Medicare Eligibility in MBD
05	Program Integrity Issues/Potential Fraud, Waste and Abuse	01	Program Integrity Issues/Potential Fraud, Waste and Abuse
10	Customer Service	12	Plan Website
11	Enrollment/ Disenrollment	16	Facilitated/Auto Enrollment Issues
		17	Missing Medicaid/ Medicare Eligibility in MBD
		18	Enrollment Exceptions (EE)
13	Pricing/Co-Insurance	06	Beneficiary has lost LIS Status/Eligibility or was denied LIS
		08	Overcharged Premium Fees
14	Program Integrity Issues/Potential Fraud, Waste and Abuse	01	Program Integrity Issues/Potential Fraud, Waste and Abuse
24	Program Integrity Issues/Potential Fraud, Waste and Abuse	01	Program Integrity Issues/Potential Fraud, Waste and Abuse
32	Program Integrity Issues/Potential Fraud, Waste and Abuse	01	Program Integrity Issues/Potential Fraud, Waste and Abuse
34	Plan Administration	02	Plan Terminating Contract
38	Contractor/ Partner Performance	01	Quality Improvement Organization (QIO)
		02	State Health Insurance Plans (SHIPs)
		03	Social Security Administration (SSA)
		04	1-800-Medicare
		90	Other Contractor/ Partner Performance
41	Pricing/Co-Insurance	01	Premium Reconciliation - Refund or Billing Issue
		03	Beneficiary Double Billed (both premium withhold and direct pay)
		04	Premium Withhold Amount not going to Plan
		05	Part B Premium Reduction Issue
		90	Other Premium Withhold Issue

Note: Program Integrity Complaints, which are in the CTM but not viewable by plans, are excluded as well.

Attachment C: National Averages for Part C and D Measures

The tables below contain the average of the numeric and star values for each measure reported in the 2018 Star Ratings¹.

Table C-1: National Averages for Part C Measures

Measure ID	Measure Name	Numeric Average	Star Average
C01	Breast Cancer Screening	73%	3.1
C02	Colorectal Cancer Screening	70%	3.4
C03	Annual Flu Vaccine	71	3.1
C04	Improving or Maintaining Physical Health	67%	2.9
C05	Improving or Maintaining Mental Health	85%	3.7
C06	Monitoring Physical Activity	51%	2.9
C07	Adult BMI Assessment	95%	4.1
C08	Special Needs Plan (SNP) Care Management	69%	3.2
C09	Care for Older Adults – Medication Review	90%	4.1
C10	Care for Older Adults – Functional Status Assessment	83%	4.0
C11	Care for Older Adults – Pain Assessment	91%	4.4
C12	Osteoporosis Management in Women who had a Fracture	41%	2.6
C13	Diabetes Care – Eye Exam	72%	3.6
C14	Diabetes Care – Kidney Disease Monitoring	96%	3.7
C15	Diabetes Care – Blood Sugar Controlled	77%	4.2
C16	Controlling Blood Pressure	72%	3.2
C17	Rheumatoid Arthritis Management	78%	3.4
C18	Reducing the Risk of Falling	58%	2.5
C19	Improving Bladder Control	45%	3.1
C20	Medication Reconciliation Post-Discharge	50%	3.3
C21	Plan All-Cause Readmissions	10%	3.3
C22	Getting Needed Care	83	3.4
C23	Getting Appointments and Care Quickly	78	3.2
C24	Customer Service	90	3.4
C25	Rating of Health Care Quality	86	3.4
C26	Rating of Health Plan	86	3.2
C27	Care Coordination	86	3.3
C28	Complaints about the Health Plan	0.19	4.3
C29	Members Choosing to Leave the Plan	11%	4.0
C30	Beneficiary Access and Performance Problems	81	4.1
C31	Health Plan Quality Improvement	Medicare shows only a Star Rating for this topic	3.6
C32	Plan Makes Timely Decisions about Appeals	92%	3.7
C33	Reviewing Appeals Decisions	89%	4.0
C34	Call Center – Foreign Language Interpreter and TTY Availability	93%	4.5

¹ All contracts are weighted equally in these averages.

Table C-2: National Averages for Part D Measures

Measure ID	Measure Name	MA-PD Numeric Average	MA-PD Star Average	PDP Numeric Average	PDP Star Average
D01	Call Center – Foreign Language Interpreter and TTY Availability	93%	4.5	92%	3.9
D02	Appeals Auto-Forward	5.6	4.8	4.7	4.4
D03	Appeals Upheld	83%	4.0	80%	3.5
D04	Complaints about the Drug Plan	0.19	4.3	0.06	4.2
D05	Members Choosing to Leave the Plan	11%	3.9	7%	3.6
D06	Beneficiary Access and Performance Problems	80	4.1	89	4.5
D07	Drug Plan Quality Improvement	Medicare shows only a Star Rating for this topic	3.7	Medicare shows only a Star Rating for this topic	3.9
D08	Rating of Drug Plan	84	3.2	83	3.4
D09	Getting Needed Prescription Drugs	90	3.4	90	3.4
D10	MPF Price Accuracy	99	4.7	99	4.6
D11	Medication Adherence for Diabetes Medications	80%	3.3	82%	3.2
D12	Medication Adherence for Hypertension (RAS antagonists)	82%	3.7	84%	3.2
D13	Medication Adherence for Cholesterol (Statins)	78%	3.3	81%	3.3
D14	MTM Program Completion Rate for CMR	61%	3.5	33%	2.8

Attachment D: Part C and D Data Time Frames

Table D-1: Part C Measure Data Time Frames

Measure ID	Measure Name	Primary Data Source	Data Time Frame
C01	Breast Cancer Screening	HEDIS	01/01/2016 – 12/31/2016
C02	Colorectal Cancer Screening	HEDIS	01/01/2016 – 12/31/2016
C03	Annual Flu Vaccine	CAHPS	03/2017 – 06/2017
C04	Improving or Maintaining Physical Health	HOS	04/18/2016 – 07/31/2016
C05	Improving or Maintaining Mental Health	HOS	04/18/2016 – 07/31/2016
C06	Monitoring Physical Activity	HEDIS / HOS	04/18/2016 – 07/31/2016
C07	Adult BMI Assessment	HEDIS	01/01/2016 – 12/31/2016
C08	Special Needs Plan (SNP) Care Management	Part C Plan Reporting	01/01/2016 – 12/31/2016
C09	Care for Older Adults – Medication Review	HEDIS	01/01/2016 – 12/31/2016
C10	Care for Older Adults – Functional Status Assessment	HEDIS	01/01/2016 – 12/31/2016
C11	Care for Older Adults – Pain Assessment	HEDIS	01/01/2016 – 12/31/2016
C12	Osteoporosis Management in Women who had a Fracture	HEDIS	01/01/2016 – 12/31/2016
C13	Diabetes Care – Eye Exam	HEDIS	01/01/2016 – 12/31/2016
C14	Diabetes Care – Kidney Disease Monitoring	HEDIS	01/01/2016 – 12/31/2016
C15	Diabetes Care – Blood Sugar Controlled	HEDIS	01/01/2016 – 12/31/2016
C16	Controlling Blood Pressure	HEDIS	01/01/2016 – 12/31/2016
C17	Rheumatoid Arthritis Management	HEDIS	01/01/2016 – 12/31/2016
C18	Reducing the Risk of Falling	HEDIS / HOS	04/18/2016 – 07/31/2016
C19	Improving Bladder Control	HEDIS / HOS	04/18/2016 – 07/31/2016
C20	Medication Reconciliation Post-Discharge	HEDIS	01/01/2016 – 12/31/2016
C21	Plan All-Cause Readmissions	HEDIS	01/01/2016 – 12/31/2016
C22	Getting Needed Care	CAHPS	03/2017 – 06/2017
C23	Getting Appointments and Care Quickly	CAHPS	03/2017 – 06/2017
C24	Customer Service	CAHPS	03/2017 – 06/2017
C25	Rating of Health Care Quality	CAHPS	03/2017 – 06/2017
C26	Rating of Health Plan	CAHPS	03/2017 – 06/2017
C27	Care Coordination	CAHPS	03/2017 – 06/2017
C28	Complaints about the Health Plan	Complaints Tracking Module (CTM)	01/01/2016 – 12/31/2016
C29	Members Choosing to Leave the Plan	MBDSS	01/01/2016 – 12/31/2016
C30	Beneficiary Access and Performance Problems	Compliance Activity Module (CAM)	01/01/2016 – 12/31/2016
C31	Health Plan Quality Improvement	Star Ratings	Not Applicable
C32	Plan Makes Timely Decisions about Appeals	Independent Review Entity (IRE)	01/01/2016 – 12/31/2016
C33	Reviewing Appeals Decisions	Independent Review Entity (IRE)	01/01/2016 – 12/31/2016
C34	Call Center – Foreign Language Interpreter and TTY Availability	Call Center	02/13/2017 – 06/02/2017

Table D-2: Part D Measure Data Time Frames

Measure ID	Measure Name	Primary Data Source	Data Time Frame
D01	Call Center – Foreign Language Interpreter and TTY Availability	Call Center	02/13/2017 – 06/02/2017
D02	Appeals Auto-Forward	Independent Review Entity (IRE)	01/01/2016 – 12/31/2016
D03	Appeals Upheld	Independent Review Entity (IRE)	01/01/2016 – 12/31/2016
D04	Complaints about the Drug Plan	Complaints Tracking Module (CTM)	01/01/2016 – 12/31/2016
D05	Members Choosing to Leave the Plan	MBDSS	01/01/2016 – 12/31/2016
D06	Beneficiary Access and Performance Problems	Compliance Activity Module (CAM)	01/01/2016 – 12/31/2016
D07	Drug Plan Quality Improvement	Star Ratings	Not Applicable
D08	Rating of Drug Plan	CAHPS	03/2017 – 06/2017
D09	Getting Needed Prescription Drugs	CAHPS	03/2017 – 06/2017
D10	MPF Price Accuracy	PDE data, MPF Pricing Files	01/01/2016 – 09/30/2016
D11	Medication Adherence for Diabetes Medications	Prescription Drug Event (PDE) data	01/01/2016 – 12/31/2016
D12	Medication Adherence for Hypertension (RAS antagonists)	Prescription Drug Event (PDE) data	01/01/2016 – 12/31/2016
D13	Medication Adherence for Cholesterol (Statins)	Prescription Drug Event (PDE) data	01/01/2016 – 12/31/2016
D14	MTM Program Completion Rate for CMR	Part D Plan Reporting	01/01/2016 – 12/31/2016

Attachment E: SNP Measure Scoring Methodologies

1. Medicare Part C Reporting Requirements Measure (C08: SNP Care Management)

Step 1: Start with all contracts that offer at least one SNP plan that was active at any point during contract year 2016.

Step 2: Exclude any PBP that is not required to report data for the contract year 2016 Part C SNP Care Reporting Requirements, based on terminations on or before the end of the contract year. This exclusion is consistent with the statement from page 4 of the CY 2016 Medicare Part C Plan Reporting Requirements Technical Specifications Document: “If a plan terminates before or at the end of its contract year (CY), it is not required to report and/or have its data validated for that CY.” This excludes:

- PBPs that terminate in transition from CY 2016 to CY 2017 according to the plan crosswalk
- Contracts that terminate on or before 12/31/2016 according to the Contract Info extract

We then also **exclude** those that are **not required to undergo data validation (DV)** for the contract year 2016 Part C SNP Care Reporting Requirements, based on terminations on or before the deadline for submission of DV results to CMS. This exclusion is consistent with the following statement from page 2 of the Medicare Part C and Part D Reporting Requirements Data Validation Procedure Manual:

“A sponsoring organization that terminates its contract(s) to offer Medicare Part C and/or Part D benefits, or that is subject to a CMS termination of its contract(s), is not required to undergo a DV review for the final contract year’s reported data. Similarly, for reporting sections that are reported at the plan benefit package (PBP) level, PBPs that terminate are not required to undergo a DV review for the final year’s reported data.”

This excludes: Contracts and PBP with an effective termination data that occurs between 1/1/2017 and 6/30/2017 according to the Contract Info extract

Step 3: After removing contract/PBP data excluded above, suppress contract rates based on the following rules:

Section-level DV failure: Contracts that score less than 95% in DV for their CY 2016 SNP Care Reporting Requirements data are listed as “CMS identified issues with this plan’s data.”

Element-level DV failure: Contracts that score 95% or higher in DV for their CY 2016 SNP Care Reporting Requirements data but that failed at least one of the four data elements (elements 13.1, 13.2, 13.3, and 13.6) are listed as “CMS identified issues with this plan’s data.”

Small size: Contracts that have not yet been suppressed and have a SNP Care Assessment rate denominator [Number of New Enrollees (Element 13.1) + Number of enrollees eligible for an annual HRA (Element 13.2)] of fewer than 30 are listed as “No Data Available.”

Organizations can view their own plan reporting data validation results in HPMS (<https://hpms.cms.gov/>). From the home page, select Monitoring | Plan Reporting Data Validation.

Step 4: Calculate the rate for the remaining contract/PBPs using the formula:

$$\begin{aligned} & [\text{Number of initial HRAs performed on new enrollees (Element 13.3)} \\ & + \text{Number of annual reassessments performed (Element 13.6)}] \\ & / [\text{Number of new enrollees (Element 13.1)} \\ & + \text{Number of enrollees eligible for an annual HRA (Element 13.2)}] \end{aligned}$$

2. NCQA HEDIS Measures - (C09 - C11: Care for Older Adults)

The example NCQA measure combining methodology specifications below is written for two Plan Benefit Package (PBP) submissions, which we distinguish as 1 and 2, but the methodology easily extends to any number of submissions.

Rates are produced for any contract offering a SNP in the ratings year which provided SNP HEDIS data in the measurement year.

Definitions

Let N_1 = The Total Number of Members Eligible for the HEDIS measure in the first PBP ("fixed" and auditable)

Let N_2 = The Total Number of Members Eligible for the HEDIS measure in the second PBP ("fixed" and auditable)

Let P_1 = The estimated rate (mean) for the HEDIS measure in the first PBP (auditable)

Let P_2 = The estimated rate (mean) for the same HEDIS measure in the second PBP (auditable)

Setup Calculations

Based on the above definitions, there are two additional calculations:

Let W_1 = The weight assigned to the first PBP results (estimated, auditable). This is estimated from the formula $W_1 = N_1 / (N_1 + N_2)$

Let W_2 = The weight assigned to the second PBP results (estimated, auditable). This is estimated from the formula $W_2 = N_2 / (N_1 + N_2)$

Pooled Analysis

The pooled result from the two rates (means) is calculated as: $P_{\text{pooled}} = W_1 * P_1 + W_2 * P_2$

NOTES:

Weights are based on the eligible member population. While it may be more accurate to remove all excluded members before weighting, NCQA and CMS have chosen not to do this (to simplify the method) for two reasons: 1) the number of exclusions relative to the size of the population should be small, and 2) exclusion rates (as a percentage of the eligible population) should be similar for each PBP and negligibly affect the weights.

If one or more of the submissions has an audit designation of NA, those submissions are dropped and not included in the weighted rate (mean) calculations. If one or more of the submissions has an audit designation of BR or NR (which has been determined to be biased or is not reported by choice of the contract), the rate is set to zero as detailed in the section titled "Handling of Biased, Erroneous and/or Not Reportable (NR) Data" and the average enrollment for the year is used for the eligible population in the PBP.

Numeric Example Using an Effectiveness of Care Rate	
# of Total Members Eligible for the HEDIS measure in PBP 1, N_1 =	1500
# of Total Members Eligible for the HEDIS measure in PBP 2, N_2 =	2500
HEDIS Result for PBP 1, Enter as a Proportion between 0 and 1, P_1 =	0.75
HEDIS Result for PBP 2, Enter as a Proportion between 0 and 1, P_2 =	0.5
Setup Calculations - Initialize Some Intermediate Results	
The weight for PBP 1 product estimated by $W_1 = N_1 / (N_1 + N_2)$	0.375
The weight for PBP 2 product estimated by $W_2 = N_2 / (N_1 + N_2)$	0.625
Pooled Results	
$P_{\text{pooled}} = W_1 * P_1 + W_2 * P_2$	0.59375

Attachment F: Calculating Measure C21: Plan All-Cause Readmissions

All data come from the HEDIS 2017 M17_PCRb data file. The CMS MA HEDIS Public Use File (PUF) data can be found on this page: [Medicare Advantage/Part D Contract and Enrollment Data](#)

Formula Value	PCRb Field	Field Description	PUF Field
A	is6574	Count of Index Stays (Denominator) 65-74	UOS524-0010
D	r6574	Count of 30-Day readmissions (numerator) 65-74	UOS524-0020
G	ap6574	Average Adjusted Probability 65-74	UOS524-0030
B	is7584	Count of Index Stays (Denominator) 75-84	UOS524-0040
E	r7584	Count of 30-Day readmissions (numerator) 75-84	UOS524-0050
H	ap7584	Average Adjusted Probability 75-84	UOS524-0060
C	is85	Count of Index Stays (Denominator) 85+	UOS524-0070
F	r85	Count of 30-Day readmissions (numerator) 85+	UOS524-0080
I	ap85	Average Adjusted Probability 85+	UOS524-0090

$$\text{NatAvgObs} = \text{Average} \left(\left(\frac{D_1 + E_1 + F_1}{A_1 + B_1 + C_1} \right) + \dots + \left(\frac{D_n + E_n + F_n}{A_n + B_n + C_n} \right) \right) \text{ Where 1 through n are all contracts with numeric data.}$$

$$\text{Denominator} = A + B + C$$

$$\text{Observed} = \frac{D+E+F}{A+B+C}$$

$$\text{Expected} = \left(\left(\frac{A}{A+B+C} \right) \times G \right) + \left(\left(\frac{B}{A+B+C} \right) \times H \right) + \left(\left(\frac{C}{A+B+C} \right) \times I \right)$$

$$\text{Final Rate} = \left(\left(\frac{\text{Observed}}{\text{Expected}} \right) \times \text{NatAvgObs} \right) \times 100$$

Example: Calculating the final rate for Contract 1

Formula Value	PCR Field	Contract 1	Contract 2	Contract 3	Contract 4
A	is6574	2,217	1,196	4,157	221
D	r6574	287	135	496	30
G	ap6574	0.126216947	0.141087156	0.122390927	0.129711036
B	is7584	1,229	2,483	3,201	180
E	r7584	151	333	434	27
H	ap7584	0.143395345	0.141574415	0.168403941	0.165909069
C	is85	1,346	1,082	1,271	132
F	r85	203	220	196	22
I	ap85	0.165292297	0.175702614	0.182608065	0.145632638

$$\text{NatAvgObs} = \text{Average} \left(\left(\frac{287+151+203}{2217+1229+1346} \right) + \left(\frac{135+333+220}{1196+2438+1082} \right) + \left(\frac{496+434+196}{4157+3201+1271} \right) + \left(\frac{30+27+22}{221+180+132} \right) \right)$$

$$\text{NatAvgObs} = \text{Average} ((0.13376) + (0.14451) + (0.13049) + (0.14822))$$

$$\text{NatAvgObs} = 0.13924$$

$$\text{Observed Contract 1} = \frac{287+151+203}{2217+1229+1346} = 0.13376$$

$$\text{Expected Contract 1} = \left(\left(\left(\frac{2217}{2217+1229+1346} \right) \times 0.126216947 \right) + \left(\left(\frac{1229}{2217+1229+1346} \right) \times 0.143395345 \right) + \left(\left(\frac{1346}{2217+1229+1346} \right) \times 0.165292297 \right) \right)$$

$$\text{Expected Contract 1} = (0.058 + 0.037 + 0.046) = 0.142$$

$$\text{Final Rate Contract 1} = \left(\left(\frac{0.13376}{0.142} \right) \times 0.13924 \right) \times 100 = 13.1160158$$

Final Rate reported in the Star Ratings for Contract 1 = 13%

The actual calculated NatAvgObs value used in the 2018 Star Ratings was 0.122789948691709

Attachment G: Weights Assigned to Individual Performance Measures

Table G-1: Part C Measure Weights

Measure ID	Measure Name	Weighting Category	Part C Summary	MA-PD Overall
C01	Breast Cancer Screening	Process Measure	1	1
C02	Colorectal Cancer Screening	Process Measure	1	1
C03	Annual Flu Vaccine	Process Measure	1	1
C04	Improving or Maintaining Physical Health	Outcome Measure	3	3
C05	Improving or Maintaining Mental Health	Outcome Measure	3	3
C06	Monitoring Physical Activity	Process Measure	1	1
C07	Adult BMI Assessment	Process Measure	1	1
C08	Special Needs Plan (SNP) Care Management	Process Measure	1	1
C09	Care for Older Adults – Medication Review	Process Measure	1	1
C10	Care for Older Adults – Functional Status Assessment	Process Measure	1	1
C11	Care for Older Adults – Pain Assessment	Process Measure	1	1
C12	Osteoporosis Management in Women who had a Fracture	Process Measure	1	1
C13	Diabetes Care – Eye Exam	Process Measure	1	1
C14	Diabetes Care – Kidney Disease Monitoring	Process Measure	1	1
C15	Diabetes Care – Blood Sugar Controlled	Intermediate Outcome Measure	3	3
C16	Controlling Blood Pressure	Intermediate Outcome Measure	3	3
C17	Rheumatoid Arthritis Management	Process Measure	1	1
C18	Reducing the Risk of Falling	Process Measure	1	1
C19	Improving Bladder Control	Process Measure	1	1
C20	Medication Reconciliation Post-Discharge	Process Measure	1	1
C21	Plan All-Cause Readmissions	Outcome Measure	3	3
C22	Getting Needed Care	Patients' Experience and Complaints Measure	1.5	1.5
C23	Getting Appointments and Care Quickly	Patients' Experience and Complaints Measure	1.5	1.5
C24	Customer Service	Patients' Experience and Complaints Measure	1.5	1.5
C25	Rating of Health Care Quality	Patients' Experience and Complaints Measure	1.5	1.5
C26	Rating of Health Plan	Patients' Experience and Complaints Measure	1.5	1.5
C27	Care Coordination	Patients' Experience and Complaints Measure	1.5	1.5
C28	Complaints about the Health Plan	Patients' Experience and Complaints Measure	1.5	1.5
C29	Members Choosing to Leave the Plan	Patients' Experience and Complaints Measure	1.5	1.5
C30	Beneficiary Access and Performance Problems	Measures Capturing Access	1.5	1.5
C31	Health Plan Quality Improvement	Improvement Measure	5	5
C32	Plan Makes Timely Decisions about Appeals	Measures Capturing Access	1.5	1.5
C33	Reviewing Appeals Decisions	Measures Capturing Access	1.5	1.5
C34	Call Center – Foreign Language Interpreter and TTY Availability	Measures Capturing Access	1.5	1.5

Table G-2: Part D Measure Weights

Measure ID	Measure Name	Weighting Category	Part D Summary	MA-PD Overall
D01	Call Center – Foreign Language Interpreter and TTY Availability	Measures Capturing Access	1.5	1.5
D02	Appeals Auto-Forward	Measures Capturing Access	1.5	1.5
D03	Appeals Upheld	Measures Capturing Access	1.5	1.5
D04	Complaints about the Drug Plan	Patients' Experience and Complaints Measure	1.5	1.5
D05	Members Choosing to Leave the Plan	Patients' Experience and Complaints Measure	1.5	1.5
D06	Beneficiary Access and Performance Problems	Measures Capturing Access	1.5	1.5
D07	Drug Plan Quality Improvement	Improvement Measure	5	5
D08	Rating of Drug Plan	Patients' Experience and Complaints Measure	1.5	1.5
D09	Getting Needed Prescription Drugs	Patients' Experience and Complaints Measure	1.5	1.5
D10	MPF Price Accuracy	Process Measure	1	1
D11	Medication Adherence for Diabetes Medications	Intermediate Outcome Measure	3	3
D12	Medication Adherence for Hypertension (RAS antagonists)	Intermediate Outcome Measure	3	3
D13	Medication Adherence for Cholesterol (Statins)	Intermediate Outcome Measure	3	3
D14	MTM Program Completion Rate for CMR	Process Measure	1	1

Attachment H: Calculation of Weighted Star Rating and Variance Estimates

The weighted summary (or overall) Star Rating for contract j is estimated as:

$$\bar{x}_j = \frac{\sum_{i=1}^{n_j} w_{ij} x_{ij}}{\sum_{i=1}^{n_j} w_{ij}}$$

where n_j is the number of performance measures for which contract j is eligible; w_{ij} is the weight assigned to performance measure i for contract j ; and x_{ij} is the measure star for performance measure i for contract j . The variance of the Star Ratings for each contract j , s_j^2 , must also be computed in order to estimate the reward factor (r-Factor):

$$s_j^2 = \frac{n_j}{(n_j - 1)(\sum_{i=1}^{n_j} w_{ij})} \left[\sum_{i=1}^{n_j} w_{ij} (x_{ij} - \bar{x}_j)^2 \right]$$

Thus, the $\bar{x}_j$'s are the new summary (or overall) Star Ratings for the contracts. The variance estimate, s_j^2 , simply replaces the non-weighted variance estimate that was previously used for the r-Factor calculation. For all contracts j , $w_{ij} = w_i$ (i.e., the performance measure weights are the same for all contracts when estimating a given Star Rating (Part C or Part D summary or MA-PD overall ratings)).

Attachment I: Calculating the Improvement Measure and the Measures Used

Calculating the Improvement Measure

Contracts must have data for at least half of the attainment measures used to calculate the Part C or Part D improvement measure to be eligible to receive a rating in that improvement measure.

The improvement change score was determined for each measure for which a contract was eligible by calculating the difference in measure scores between Star Rating years 2017 and 2018:

For measures where a higher score is better:

$$\text{Improvement Change Score} = \text{Score in 2018} - \text{Score in 2017}.$$

For measures where a lower score is better:

$$\text{Improvement Change Score} = \text{Score in 2017} - \text{Score in 2018}$$

An eligible measure was defined as a measure for which a contract was scored in both the 2017 and 2018 Star Ratings and there were no significant specification changes.

For each measure, significant improvement or decline between Star Ratings years 2017 and 2018 was determined by a t-test at the 95% significance level:

$$\text{If } \frac{\text{Improvement Change Score}}{\text{Standard Error of Improvement Change Score}} > 1.96, \text{ then YES} = \text{significant improvement}$$

$$\text{If } \frac{\text{Improvement Change Score}}{\text{Standard Error of Improvement Change Score}} < -1.96, \text{ then YES} = \text{significant decline}$$

Hold Harmless Provision for Individual Measures: If a contract demonstrated statistically significant decline (at the 0.05 significance level) on an attainment measure for which they received five stars during both the current contract year and the prior contract year, then this measure will be counted as showing no significant change. Measures that are held harmless as described here will be considered eligible for the improvement measure.

Net improvement is calculated for each class of measures (e.g., outcome, access, and process) by subtracting the number of significantly declined measures from the number of significantly improved measures.

$$\text{Net Improvement} = \# \text{ of significantly improved measures} - \# \text{ of significantly declined measures}$$

The improvement measure score is calculated for Parts C and D separately by taking a weighted sum of net improvement divided by the weighted sum of the number of eligible measures.

Measures are weighted as follows:

Outcome or intermediate outcome measure: Weight of 3

Access or patient experience measure: Weight of 1.5

Process measure: Weight of 1

When the weight of an individual measure changes over the two years of data used, the lower weight value is used in the improvement calculation.

$$\text{Improvement Measure Score} = \frac{\text{Net_Imp_Process} + 1.5 * \text{Net_Imp_PtExp} + 3 * \text{Net_Imp_Outcome}}{\text{Elig_Process} + 1.5 * \text{Elig_PtExp} + 3 * \text{Elig_Outcome}}$$

Net_Imp_Process = Net improvement for process measures

Net_Imp_PtExp = Net improvement for patient experience and access measures

Net_Imp_Outcome = Net improvement for outcome and intermediate outcome measures

Elig_Process = Number of eligible process measures

Elig_PtExp = Number of eligible patient experience and access measures

Elig_Outcome = Number of eligible outcome and intermediate outcome measures

The improvement measure score is converted into a Star Rating using the clustering method. Conceptually, the clustering algorithm identifies the “gaps” in the data and creates cut points that result in the creation of five categories (one for each Star Rating) such that scores of contracts in the same score category (Star Rating) are as similar as possible, and scores of contracts in different categories are as different as possible. Improvement scores of 0 (equivalent to no net change on the attainment measures included in the improvement measure calculation) will be centered at 3 stars when assigning the improvement measure Star Rating. Then, the remaining contracts are split into two groups and clustered: 1) improvement scores less than zero receive one or two stars on the improvement measure and 2) improvement scores greater than or equal to zero receive 3, 4, or 5 stars.

Contracts with 2 or fewer stars for their highest rating when calculated without improvement will not have their data calculated with the improvement measure included.

Hold Harmless Provision: Contracts with 4 or more stars for their highest rating that would have had their overall rating decreased with the addition of the improvement measures were held harmless. That is, the highest Star Rating would not be decreased from 4 or more stars when the improvement measures were added to the overall Star Rating calculation. In addition, the reward factor is recalculated without the improvement measures included.

General Standard Error Formula

Because a contract’s score in one year is not independent of the score in the next year, the standard error is calculated using the standard estimation of the variance of the difference between two variables that are not necessarily independent. The standard error of the improvement change score is calculated using the formula

$$\sqrt{se(Y_{i2})^2 + se(Y_{i1})^2 - 2 * Cov(Y_{i2}, Y_{i1})}$$

Using measure C01 as an example, the change score standard error is:

$se(Y_{i2})$ Represents the 2018 standard error for contract i on measure C01

$se(Y_{i1})$ Represents the 2017 standard error for contract i on measure C01

Y_{i2} Represents the 2018 rate for contract i on measure C01

Y_{i1} Represents the 2017 rate for contract i on measure C01

cov Represents the covariance between Y_{i2} and Y_{i1} computed using the correlation across all contracts observed at both time points (2018 and 2017). In other words:

$$cov(Y_{i2}, Y_{i1}) = se(Y_{i2}) * se(Y_{i1}) * Corr(Y_{i2}, Y_{i1})$$

where the correlation $Corr(Y_{i2}, Y_{i1})$ is assumed to be the same for all contracts and is computed using data for all contracts. This assumption was needed because only one score is observed for each contract in each year; therefore, it is not possible to compute the contract specific correlation.

Standard Error Numerical Example.

For measure C03, contract A:

$$se(Y_{i2}) = 2.805$$

$$se(Y_{i1}) = 3.000$$

$$Corr(Y_{i2}, Y_{i1}) = 0.901$$

$$\text{Standard error for measure C03 for contract A} = \sqrt{2.805^2 + 3.000^2 - 2 * 0.901 * 2.805 * 3.000} = 1.305$$

Standard Error Formulas (SEF) for Specific Measures

The following formulas are used for calculating the standard error for specific measures in the 2018 Star Ratings. These are modifications to the general standard error formula provide above to account for the specific type of data in the measure.

1. SEF for Measures: C01, C02, C06 – C08, C12 – C18, C29, C32 – C34, D01, D03, D05, D11 – D14

$$SE_y = \sqrt{\frac{\text{Score}_y * (100 - \text{Score}_y)}{\text{Denominator}_y}}$$

for y = 2017, 2018

Denominator_y is as defined in the Measure Details section for each measure

2. SEF for Measures: C09 – C11

These measures are rolled up from the plan level to the contract level following the formula outlined in [“Attachment E: NCQA HEDIS Measures.”](#) The standard error at the contract level is calculated as shown below. The specifications are written for two PBP submissions, which we distinguish as 1 and 2, but the methodology easily extends to any number of submissions.

The plan level standard error is calculated as:

$$SE_{yj} = \sqrt{\frac{\text{Score}_{yj} * (100 - \text{Score}_{yj})}{\text{Denominator}_{yj}}}$$

for y = 2017, 2018 and j = Plan 1, Plan 2

The contract level standard error is then calculated as:

Let Wy1 = The weight assigned to the first PBP results (estimated, auditable) for year y, where y = 2017, 2018. This result is estimated by the formula Wy1 = Ny1 / (Ny1 + Ny2)

Let Wy2 = The weight assigned to the second PBP results (estimated, auditable) for year y, where y = 2017, 2018. This result is estimated by the formula Wy2 = Ny2 / (Ny1 + Ny2)

$$SE_{yi} = \sqrt{(W_{y1})^2 * (SE_{y1})^2 + (W_{y2})^2 * (SE_{y2})^2}$$

for y = Contract Year 2017, Contract Year 2018 and i = Contract i

3. SEF for Measure: C21

$$SE_y = 100 * \text{NatAvgObs} * \sqrt{\frac{\text{Observed Count of Readmissions}_y}{(\text{Expected Count of Readmissions}_y)^2}}$$

for y = 2017, 2018

The calculation of NatAvgObs is explained in [“Attachment F: Calculating Measure C21: Plan All-Cause Readmissions.”](#) The observed count of readmissions is calculated as D + E + F, where D, E, and F are formula values in [Attachment F](#). The expected count of readmissions is calculated using the formula A * G + B * H + C * I, and A, B, C, G, H, and I are formula values in [Attachment F](#).

4. SEF for Measures: C03, C22, C25, C26, and D08 – D09

The CAHPS measure standard errors for 2017 and 2018 were provided to CMS by the CAHPS contractor following the formulas documented in the [CAHPS Macro Manual](#). The actual values used for each contract are included on the Measure Detail CAHPS page in the HPMS preview area.

5. SEF for Measure: D02

$$SE_y = \sqrt{\frac{\text{Total Number of Cases Auto-Forwarded to IRE}_y}{(\text{Average Medicare Part D Enrollment}_y)^2}} * 10,000$$

6. SEF for Measures C28, D04

$$SE_y = \sqrt{\frac{\text{Total Number of Complaints}_y}{(\text{Average Contract Enrollment}_y)^2}} * \frac{1000 * 30}{\text{NumDays}}$$

NumDays: 2017 = 365, 2018 = 366

Star Ratings Measures Used in the Improvement Measures

Table I-1: Part C Measures Used in the Improvement Measure

Measure ID	Measure Name	Measure Usage	Correlation
C01	Breast Cancer Screening	Included	0.936739
C02	Colorectal Cancer Screening	Included	0.806534
C03	Annual Flu Vaccine	Included	0.885625
C04	Improving or Maintaining Physical Health	Not Included	-
C05	Improving or Maintaining Mental Health	Not Included	-
C06	Monitoring Physical Activity	Included	0.799708
C07	Adult BMI Assessment	Included	0.749839
C08	Special Needs Plan (SNP) Care Management	Included	0.859815
C09	Care for Older Adults – Medication Review	Included	0.56737
C10	Care for Older Adults – Functional Status Assessment	Included	0.743594
C11	Care for Older Adults – Pain Assessment	Included	0.691499
C12	Osteoporosis Management in Women who had a Fracture	Included	0.847194
C13	Diabetes Care – Eye Exam	Included	0.815793
C14	Diabetes Care – Kidney Disease Monitoring	Included	0.654454
C15	Diabetes Care – Blood Sugar Controlled	Included	0.775316
C16	Controlling Blood Pressure	Included	0.815021
C17	Rheumatoid Arthritis Management	Included	0.760214
C18	Reducing the Risk of Falling	Included	0.854905
C19	Improving Bladder Control	Not Included	-
C20	Medication Reconciliation Post-Discharge	Not Included	-
C21	Plan All-Cause Readmissions	Included	0.170276
C22	Getting Needed Care	Included	0.699226
C23	Getting Appointments and Care Quickly	Not Included	-
C24	Customer Service	Not Included	-
C25	Rating of Health Care Quality	Included	0.745621
C26	Rating of Health Plan	Included	0.842734
C27	Care Coordination	Not Included	-
C28	Complaints about the Health Plan	Included	0.81675
C29	Members Choosing to Leave the Plan	Included	0.724224
C30	Beneficiary Access and Performance Problems	Not Included	-
C31	Health Plan Quality Improvement	Not Included	-
C32	Plan Makes Timely Decisions about Appeals	Included	0.282566
C33	Reviewing Appeals Decisions	Included	0.506524
C34	Call Center – Foreign Language Interpreter and TTY Availability	Included	0.49356

Table I-2: Part D Measures Used in the Improvement Measure

Measure ID	Measure Name	Measure Usage	Correlation
D01	Call Center – Foreign Language Interpreter and TTY Availability	Included	0.528235
D02	Appeals Auto-Forward	Included	0.251229
D03	Appeals Upheld	Included	0.434947
D04	Complaints about the Drug Plan	Included	0.818964
D05	Members Choosing to Leave the Plan	Included	0.735636
D06	Beneficiary Access and Performance Problems	Not Included	-
D07	Drug Plan Quality Improvement	Not Included	-
D08	Rating of Drug Plan	Included	0.802165
D09	Getting Needed Prescription Drugs	Included	0.67983
D10	MPF Price Accuracy	Not Included	-
D11	Medication Adherence for Diabetes Medications	Included	0.837213
D12	Medication Adherence for Hypertension (RAS antagonists)	Included	0.873421
D13	Medication Adherence for Cholesterol (Statins)	Included	0.913449
D14	MTM Program Completion Rate for CMR	Included	0.571178

Attachment J: Star Ratings Measure History

The tables below cross-reference the measures code in each of the yearly Star Ratings releases. Measure codes that begin with DM are display measures which are posted on CMS.gov on this page: <http://go.cms.gov/partcanddstarratings>.

Table J-1: Part C Measure History

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	Notes
C	Access to Primary Care Doctor Visits	HEDIS	DMC10	DMC10	DMC11	DMC10	DMC12	DMC12	C11	C13	C12	C13	C09	
C	Adult BMI Assessment	HEDIS	C07	C07	C07	C08	C10	C10	C12	DMC05				
C	Annual Flu Vaccine	CAHPS	C03	C03	C03	C04	C06	C06	C06	C07	C06	C07	C07	
C	Antidepressant Medication Management (6 months)	HEDIS	DMC02	DMC02	DMC03	DMC03	DMC03	DMC03	DMC03	DMC03	DMC04	C28	C23	
C	Appropriate Monitoring of Patients Taking Long-term Medications	HEDIS	DMC04	DMC04	DMC05	DMC05	DMC05	DMC05	DMC05	C06	C05	C06	C06	
C	Asthma Medication Ratio	HEDIS	DMC18	DMC27										
C	Beneficiary Access and Performance Problems	Administrative Data	C30	C28	C28	DME08	C31	C31	C32	C33	C30			
C	Breast Cancer Screening	HEDIS	C01	C01	C01	DMC22	C01	C01	C01	C01	C01	C01	C01	
C	Call Answer Timeliness	HEDIS			DMC02	DMC02	DMC02	DMC02	DMC02	DMC02	DMC01	C20	C16	
C	Call Center – Beneficiary Hold Time	Call Center	DMC08	DMC08	DMC09		DMC09	DMC09	DMC09	C34	C31			
C	Call Center - Calls Disconnected When Customer Calls Health Plan	Call Center	DMC11	DMC11	DMC12		DMC15	DMC15						
C	Call Center – CSR Understandability	Call Center									DMC02			
C	Call Center – Foreign Language Interpreter and TTY Availability	Call Center	C34	C32	C32		C36	C36	C36	C36	C33			
C	Call Center – Information Accuracy	Call Center					DMC10	DMC10	DMC10	C35	C32			
C	Cardiovascular Care – Cholesterol Screening	HEDIS				C02	C03	C03	C03	C03		C03	C03	A
C	Care Coordination	CAHPS	C27	C25	C25	C28	C29	C29						
C	Care for Older Adults – Functional Status Assessment	HEDIS	C10	C10	C10	C11	C12	C12	C14					
C	Care for Older Adults – Medication Review	HEDIS	C09	C09	C09	C10	C11	C11	C13					
C	Care for Older Adults – Pain Assessment	HEDIS	C11	C11	C11	C12	C13	C13	C15					
C	Cholesterol Screening	HEDIS									C03			B
C	Colorectal Cancer Screening	HEDIS	C02	C02	C02	C01	C02	C02	C02	C02	C02	C02	C02	
C	Complaints about the Health Plan	CTM	C28	C26	C26	C29	C30	C30	C31	C30	C26			
C	Computer use by provider helpful	CAHPS		DMC20	DMC21	DMC20								
C	Computer use made talking to provider easier	CAHPS		DMC21	DMC22	DMC21								
C	Computer used during office visits	CAHPS		DMC19	DMC20	DMC19								
C	Continuous Beta Blocker Treatment	HEDIS	DMC03	DMC03	DMC04	DMC04	DMC04	DMC04	DMC04	DMC04	DMC05	C32	C27	
C	Controlling Blood Pressure	HEDIS	C16	C16	C16	C18	C19	C19	C21	C19	C15	C29	C24	
C	Customer Service	CAHPS	C24	C22	C22	C25	C26	C26	C28	C27	C23	C22		

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	Notes
C	Diabetes Care	HEDIS									C14			C
C	Diabetes Care – Blood Sugar Controlled	HEDIS	C15	C15	C15	C16	C17	C17	C19	C17		C26	C21	D
C	Diabetes Care – Cholesterol Controlled	HEDIS				C17	C18	C18	C20	C18		C27	C22	D
C	Diabetes Care – Cholesterol Screening	HEDIS				C03	C04	C04	C04	C04		C04	C04	A
C	Diabetes Care – Eye Exam	HEDIS	C13	C13	C13	C14	C15	C15	C17	C15		C24	C19	D
C	Diabetes Care – Kidney Disease Monitoring	HEDIS	C14	C14	C14	C15	C16	C16	C18	C16		C25	C20	D
C	Doctor Follow up for Depression	HEDIS										C15	C11	
C	Doctors who Communicate Well	CAHPS	DMC07	DMC07	DMC08	DMC08	DMC08	DMC08	DMC08	C25	C21	C21	C17	
C	Engagement of Alcohol or other Drug Treatment	HEDIS	DMC15	DMC15	DMC16	DMC15	DMC19							
C	Follow-up visit after Hospital Stay for Mental Illness (within 30 days of Discharge)	HEDIS	DMC01	DMC01	DMC01	DMC01	DMC01	DMC01	DMC01	DMC01	DMC03	C14	C10	
C	Getting Appointments and Care Quickly	CAHPS	C23	C21	C21	C24	C25	C25	C27	C26	C22	C17	C13	
C	Getting Needed Care	CAHPS	C22	C20	C20	C23	C24	C24	C26	C24	C20	C16	C12	
C	Glaucoma Testing	HEDIS					C05	C05	C05	C05	C04	C05	C05	
C	Health Plan Quality Improvement	Star Ratings	C31	C29	C29	C31	C33	C33						
C	Hospitalizations for Potentially Preventable Complications	HEDIS	DMC16	DMC24										
C	Improving Bladder Control	HEDIS / HOS	C19	DMC22	DMC23	C20	C21	C21	C23	C22	C18	C33		
C	Improving or Maintaining Mental Health	HOS	C05	C05	C05	C06	C08	C08	C09	C10	C09	C10		
C	Improving or Maintaining Physical Health	HOS	C04	C04	C04	C05	C07	C07	C08	C09	C08	C09		
C	Initiation of Alcohol or other Drug Treatment	HEDIS	DMC14	DMC14	DMC15	DMC14	DMC18							
C	Medication Management for People With Asthma	HEDIS		DMC26										
C	Medication Reconciliation Post-Discharge	HEDIS	C20	DMC23										
C	Members Choosing to Leave the Plan	MBDSS	C29	C27	C27	C30	C32	C32	C33	DME01	C29			
C	Monitoring Physical Activity	HEDIS / HOS	C06	C06	C06	C07	C09	C09	C10	C12	C11	C12		
C	Osteoporosis Management in Women who had a Fracture	HEDIS	C12	C12	C12	C13	C14	C14	C16	C14	C13	C23	C18	
C	Osteoporosis Testing	HEDIS / HOS	DMC05	DMC05	DMC06	DMC06	DMC06	DMC06	DMC06	C11	C10	C11		
C	Pharmacotherapy Management of COPD Exacerbation – Bronchodilator	HEDIS	DMC13	DMC13	DMC14	DMC13	DMC17							
C	Pharmacotherapy Management of COPD Exacerbation – Systemic Corticosteroid	HEDIS	DMC12	DMC12	DMC13	DMC12	DMC16							
C	Plan All-Cause Readmissions	HEDIS	C21	C19	C19	C22	C23	C23	C25					
C	Plan Makes Timely Decisions about Appeals	IRE / Maximus	C32	C30	C30	C32	C34	C34	C34	C31	C27	C35	C28	
C	Pneumonia Vaccine	CAHPS	DMC09	DMC09	DMC10	DMC09	DMC11	DMC11	C07	C08	C07	C08	C08	
C	Rating of Health Care Quality	CAHPS	C25	C23	C23	C26	C27	C27	C29	C28	C24	C18	C14	

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	Notes
C	Rating of Health Plan	CAHPS	C26	C24	C24	C27	C28	C28	C30	C29	C25	C19	C15	
C	Reducing the Risk of Falling	HEDIS / HOS	C18	C18	C18	C21	C22	C22	C24	C23	C19	C34		
C	Reminders for appointments	CAHPS		DMC16	DMC17	DMC16								
C	Reminders for immunizations	CAHPS		DMC17	DMC18	DMC17								
C	Reminders for screening tests	CAHPS		DMC18	DMC19	DMC18								
C	Reviewing Appeals Decisions	IRE / Maximus	C33	C31	C31	C33	C35	C35	C35	C32	C28	C36	C29	
C	Rheumatoid Arthritis Management	HEDIS	C17	C17	C17	C19	C20	C20	C22	C20	C16	C30	C25	
C	Special Needs Plan (SNP) Care Management	Part C Plan Reporting	C08	C08	C08	C09	DMC14	DMC14						
C	Statin Therapy for Patients with Cardiovascular Disease	HEDIS	DMC17	DMC25										
C	Testing to Confirm Chronic Obstructive Pulmonary Disease	HEDIS	DMC06	DMC06	DMC07	DMC07	DMC07	DMC07	DMC07	C21	C17	C31	C26	

Notes:

A: Part of composite measure Cholesterol Screening in 2010

B: Composite Measure - combined Cardiovascular Care – Cholesterol Screening and Diabetes Care – Cholesterol Screening measures

C: Composite Measure - combined Diabetes Care – Blood Sugar Controlled, Diabetes Care – Cholesterol Controlled, Diabetes Care – Eye Exam, and Diabetes Care – Kidney Disease Monitoring measures

D: Part of composite measure Diabetes Care in 2010

Table J-2: Part D Measure History

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	Notes
D	4Rx Timeliness	Acumen/OIS (4Rx)							DMD03	D07	D07		D09	
D	Adherence - Proportion of Days Covered	Prescription Drug Event (PDE)								DMD07				
D	Antipsychotic Use in Persons with Dementia	Prescription Drug Event (PDE)	DMD18											
D	Appeals Auto-Forward	IRE / Maximus	D02	D02	D02	D01	D02	D03	D03	D05	D05	D05	D13	
D	Appeals Upheld	IRE / Maximus	D03	D03	D03	D02	D03	D04	D04	D06	D06	D06	D14	
D	Beneficiary Access and Performance Problems	Administrative Data	D06	D06	D06	DME08	D05	D07	D07	D10	D11			
D	Call Center – Beneficiary Hold Time	Call Center	DMD04	DMD04	DMD04		DMD04	DMD04	DMD05	D01	D01	D01	D01	
D	Call Center – Calls Disconnected - Pharmacist	Call Center									DMD05	D04	D04	
D	Call Center - Calls Disconnected When Customer Calls Drug Plan	Call Center	DMD03	DMD03	DMD03		DMD03	DMD03	DMD04	DMD04	DMD04	D02	D02	
D	Call Center – CSR Understandability	Call Center									DMD06			
D	Call Center – Foreign Language Interpreter and TTY Availability	Call Center	D01	D01	D01		D01	D02	D02	D04	D04			
D	Call Center – Information Accuracy	Call Center					DMD05	DMD05	DMD06	D03	D03			
D	Call Center – Pharmacy Hold Time	Call Center	DMD09	DMD11	DMD11		DMD15	D01	D01	D02	D02	D03	D03	
D	Complaint Resolution	CTM									DMD07			
D	Complaints - Benefits	CTM										D07	D11	
D	Complaints - Enrollment	CTM								D08	D08	D08	D12	
D	Complaints - Other	CTM								D09	D09	D10		
D	Complaints - Pricing	CTM										D09	D17	
D	Complaints about the Drug Plan	CTM	D04	D04	D04	D03	D04	D06	D06				D05	
D	Diabetes Medication Dosing	Prescription Drug Event (PDE)	DMD06	DMD06	DMD06	DMD04	DMD07	DMD07	DMD08	DMD06	DMD09			
D	Diabetes Treatment	Prescription Drug Event (PDE)				D10	D12	D15	D14	D17	D19			
D	Drug Plan Provides Current Information on Costs and Coverage for Medicare's Website	Acumen/OIS (LIS Match Rates)	DMD07	DMD07	DMD07	DMD05	DMD08	DMD08	DMD09	D14	D15	D15	D10	
D	Drug Plan Quality Improvement	Star Ratings	D07	D07	D07	D05	D07	D09						
D	Drug-Drug Interactions	Prescription Drug Event (PDE)	DMD05	DMD05	DMD05	DMD03	DMD06	DMD06	DMD07	DMD05	DMD08			
D	Getting Information From Drug Plan	CAHPS		DMD10	DMD10	DMD09	DMD14	D10	D09	D11	D12	D12	D06	
D	Getting Needed Prescription Drugs	CAHPS	D09	D09	D09	D07	D09	D12	D11	D13	D14	D14	D08	

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	Notes
D	High Risk Medication	Prescription Drug Event (PDE)	DMD16	D11	D11	D09	D11	D14	D13	D16	D18	D19		
D	Medication Adherence for Cholesterol (Statins)	Prescription Drug Event (PDE)	D13	D14	D14	D13	D15	D18	D17					
D	Medication Adherence for Diabetes Medications	Prescription Drug Event (PDE)	D11	D12	D12	D11	D13	D16	D15					
D	Medication Adherence for Hypertension (RAS antagonists)	Prescription Drug Event (PDE)	D12	D13	D13	D12	D14	D17	D16					
D	Medication Therapy Management Program Completion Rate for Comprehensive Medication Reviews	Prescription Drug Event (PDE)	D14	D15	D15	DMD07	DMD12	DMD12						
D	Member Retention	MBDSS										D11		
D	Members Choosing to Leave the Plan	MBDSS	D05	D05	D05	D04	D06	D08	D08	DME01	D10			
D	MPF - Composite	PDE Data, MPF Pricing Files							D12	D15				B
D	MPF – Stability	PDE Data, MPF Pricing Files	DMD08	DMD08	DMD08	DMD06	DMD10	DMD10			D16	D17	D16	A
D	MPF – Updates	PDE Data, MPF Pricing Files					DMD09	DMD09	DMD10	DMD08	DMD10	D16	D15	
D	MPF Price Accuracy	PDE Data, MPF Pricing Files	D10	D10	D10	D08	D10	D13			D17	D18		A
D	Plan Submitted Higher Prices for Display on MPF	PDE Data, MPF Pricing Files	DMD10	DMD12	DMD12	DMD10	DMD16							
D	Rate of Chronic Use of Atypical Antipsychotics by Elderly Beneficiaries in Nursing Homes	Fu Associates		DMD09	DMD09	DMD08	DMD13	DMD13						
D	Rating of Drug Plan	CAHPS	D08	D08	D08	D06	D08	D11	D10	D12	D13	D13	D07	
D	Reminders to fill prescriptions	CAHPS	DMD13	DMD15	DMD15	DMD13								
D	Reminders to take medications	CAHPS	DMD14	DMD16	DMD16	DMD14								
D	Statin Use in Persons with Diabetes (SUPD)	Prescription Drug Event (PDE)	DMD15	DMD17										
D	Timely Effectuation of Appeals	IRE / Maximus	DMD02	DMD02	DMD02	DMD02	DMD02	DMD02	DMD02	DMD02	DMD02			
D	Timely Receipt of Case Files for Appeals	IRE / Maximus	DMD01	DMD01	DMD01	DMD01	DMD01	DMD01	DMD01	DMD01	DMD01			
D	Transition monitoring - failure rate for all other drugs	Transition Monitoring Program Analysis	DMD12	DMD14	DMD14	DMD12								
D	Transition monitoring - failure rate for drugs within classes of clinical concern	Transition Monitoring Program Analysis	DMD11	DMD13	DMD13	DMD11								

Notes:

A: Part of composite measure MPF - Composite in 2011 – 2012

B: Composite measure - combined MPF - Accuracy and MPF Stability

Table J-3: Common Part C & Part D Measure History

Part	Measure Name	Data Source	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
E	Beneficiary Access and Performance Problems (using revised methodology detailed in the 2018 Call Letter)	Administrative Data	DME08										
E	Disenrollment Reasons - Financial Reasons for Disenrollment (MA-PD, MA-Only, PDP)	Disenrollment Reasons Survey	DME05	DME05	DME05	DME05							
E	Disenrollment Reasons - Problems Getting Information about Prescription Drugs (MA-PD, PDP)	Disenrollment Reasons Survey	DME07	DME07	DME07	DME07							
E	Disenrollment Reasons - Problems Getting Needed Care, Coverage, and Cost Information (MA-PD, MA-Only)	Disenrollment Reasons Survey	DME03	DME03	DME03	DME03							
E	Disenrollment Reasons - Problems with Coverage of Doctors and Hospitals (MA-PD, MA-Only)	Disenrollment Reasons Survey	DME04	DME04	DME04	DME04							
E	Disenrollment Reasons - Problems with Prescription Drug Benefits and Coverage (MA-PD, PDP)	Disenrollment Reasons Survey	DME06	DME06	DME06	DME06							
E	Enrollment Timeliness	MARx	DME01	DME01	DME01	DME01	DME01	C37 / D05	D05	DMD03	DMD03		
E	Grievance Rate	Part C & D Plan Reporting	DME02	DME02	DME02	DME02	DMC13 / DMD11	DMC13 / DMD11					

Attachment K: Individual Measure Star Assignment Process

This attachment provides detailed information about the clustering and the relative distribution and significance testing (CAHPS) methodologies used to assign stars to individual measures.

Clustering Methodology Introduction

To separate a distribution of scores into distinct groups or categories, a set of values must be identified to separate one group from another group. The set of values that break the distribution of the scores into non-overlapping groups is the set of cut points.

For each individual measure, CMS determines the measure cut points using the information provided from the hierarchical clustering algorithm in SAS, described in “Clustering Methodology Detail” below. Conceptually, the clustering algorithm identifies the natural gaps that exist within the distribution of the scores and creates groups (clusters) that are then used to identify the cut points that result in the creation of a pre-specified number of categories.

For Star Ratings, the algorithm is run with the goal of determining the four cut points (labeled in the Figure K-1 below as A, B, C, and D) that are used to create the five non-overlapping groups that correspond to each of the Star Ratings (labeled in the diagram below as G1, G2, G3, G4, and G5). For Part D measures, CMS determines MA-PD and PDP cut points separately. All observations are included in the algorithm, with the exception of any data identified to be biased or erroneous. The scores are grouped such that scores within the same Star Rating category are as similar as possible, and scores in different categories are as different as possible.



Figure K-1: Diagram showing gaps in data where cut points are assigned

As mentioned, the cut points are used to create five non-overlapping groups. The value of the lower bound for each group is included in the category, while the value of the upper bound is not included in the category. CMS does not require the same number of observations (contracts) within each group. The groups are identified such that within a group the measure scores must be similar to each other and between groups, the measure scores in one group are not similar to measures scores in another group. The groups are then used for the conversion of the measure scores to one of five Star Ratings categories. For most measures, a higher score is better, and thus, the group with the highest range of measure scores is converted to a rating of five stars. An example of a measure for which higher is better is *Medication Adherence for Diabetes Medications*. For some measures a lower score is better, and thus, the group with the lowest range of measures scores is converted to a rating of five stars. An example of a measure for which a lower score is better is *Members Choosing to Leave the Plan*.

Example 1 – Clustering Methodology for a Higher is Better measure

Consider the information provided for the cut points for *Medication Adherence for Diabetes Medications* in Table K-1 below. As stated previously, for Part D measures CMS calculates MA-PD and PDP cut points separately. The 2017 MA-PD cut points identified using the clustering algorithm are 60%, 69%, 75%, and 82%; for PDPs, the cut points are 75%, 80%, 83%, and 95%. (The set of values corresponds to the cut points in the diagram below as A, B, C, and D and the categories for each of the five Star Ratings are indicated above each group.) Since a measure score can only assume a value between 0% and 100% (including 0% and 100%), the one-star and five-star categories contain only a single value in the table below as the upper or lower bound.

Table K-1: Medication Adherence for Diabetes Medications cut points example

Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
MA-PD	< 60%	≥ 60% to < 69%	≥ 69% to < 75%	≥ 75% to < 82%	≥ 82%
PDP	< 75%	≥ 75% to < 80%	≥ 80% to < 83%	≥ 83% to < 95%	≥ 95%



Since higher is better for *Medication Adherence for Diabetes Medications*, a rating of one star is assigned to all MA-PD measure scores below 60%. For each of the other Star Rating categories, the value of the lower bound is included in the rating category, while the upper bound value is not included. Focusing solely on the cut points for MA-PDs, a rating of two stars is assigned to each measure score that is at least 60% (the first cut point) to less than 69% (the second cut point). Since measure scores are reported as percents that are whole numbers, any measure score of 60% to 68% would be assigned two stars, while a measure score of 69% would be assigned a rating of three stars. Measure scores that are at least 69% to less than 75% are assigned a rating of three stars. For a conversion to four stars, a measure score of at least 75% to less than 82% is needed. A rating of five stars is assigned to any measures score of 82% or more. PDPs have different cut points, but the same overall rules apply for converting the measure score to a Star Rating.

Example 2 – Clustering Methodology for a Lower is Better measure

Consider the information provided for the 2017 cut points for *Members Choosing to Leave the Plan* in Table K-2 below. As stated previously, for Part D measures CMS calculates MA-PD and PDP cut points separately. The 2017 MA-PD cut points for *Members Choosing to Leave the Plan* determined using the clustering algorithm are 31%, 23%, 16%, and 10%; for PDPs, the cut points are 23%, 13%, 9%, and 5%. (These correspond to the cut points in the diagram above as A, B, C, and D).

Since lower is better for this measure, the five-star category will have the lowest measure score range, while the one-star category will have scores that are highest in value. For each of the other Star Rating categories, the value of the lower bound is not included in the rating category, while the upper bound value is included. (The inclusivity and exclusivity of the upper and lower bounds is opposite for a measure score where lower is better as compared to higher is better.) A rating of five stars is assigned to measure scores of 10% or less. Measure scores that are greater than 10% to a maximum value of 16% (including a measure score of 16%) are assigned a rating of four stars. A rating of three stars is assigned to measure scores greater than 16% to a maximum value of 23%. A rating of two stars is assigned to a measure score that is greater than 23% up to and including 31%. A rating of one star is assigned to any measure score greater than 31%. PDPs have different cut points, but the same overall rules apply for converting the measure score to a Star Rating.

Table K-2: Members Choosing to Leave the Plan cut points example

Type	1 Star	2 Stars	3 Stars	4 Stars	5 Stars
MA-PD	> 31%	> 23% to ≤ 31%	> 16% to ≤ 23%	> 10% to ≤ 16%	≤ 10%
PDP	> 23%	> 13% to ≤ 23%	> 9% to ≤ 13%	> 5% to ≤ 9%	≤ 5%



Clustering Methodology Detail

This section details the steps of the clustering method performed in SAS to allow the conversion of the measure scores to measure-level stars. For each measure, the clustering method does the following:

1. Produces the individual measure distance matrix.
2. Groups the measure scores into an initial set of clusters.
3. Selects the final set of clusters.

1. Produce the individual measure distance matrix.

For each pair of contracts j and k ($j \geq k$) among the n contracts with measure score data, compute the Euclidian distance of their measure scores (e.g., the absolute value of the difference between the two measure scores). Enter this distance in row j and column k of a distance matrix with n rows and n columns. This matrix can be produced using the DISTANCE procedure in SAS as follows:

```
proc distance data=inclusterdat out=distancedat method=Euclid;
    var interval(measure_score);
    id contract_id;
run;
```

In the above code, the input data set, *inclusterdat*, is the list of contracts without missing, flagged, or voluntary contract scores for a particular measure. Each record has a unique contract identifier, *contract_id*. The option *method=Euclid* specifies that distances between contract measure scores should be based on Euclidean distance. The input data contain a variable called *measure_score* that is formatted to the display criteria outlined in the Technical Notes. In the *var* call, the parentheses around *measure_score* indicate that *measure_score* is considered to be an interval or numeric variable. The distances computed by this code are stored to an output data set called *distancedat*.

2. Create a tree of cluster assignments.

The distance matrix calculated in Step 1 is the input to the clustering procedure. The stored distance algorithm is implemented to compute cluster assignments. The following process is implemented by using the CLUSTER procedure in SAS:

1. The input measure score distances are squared.
2. The clusters are initialized by assigning each contract to its own cluster.
3. In order to determine which pair of clusters to merge, Ward's minimum variance method is used to separate the variance of the measure scores into within-cluster and between-cluster sum of squares components.
4. From the existing clusters, two clusters are selected for merging to minimize the within-cluster sum of squares over all possible sets of clusters that might result from a merge.
5. Steps 3 and 4 are repeated to reduce the number of clusters by one until a single cluster containing all contracts results.

The result is a data set that contains a tree-like structure of cluster assignments, from which any number of clusters between 1 and the number of contract measure scores could be computed. The SAS code for implementing these steps is:

```
proc cluster data=distancedat method=ward outtree=treedat noprint;
    id contract_id;
run;
```

The *distancedat* data set containing the Euclidian distances was created in Step 1. The option *method=ward* indicates that Ward's minimum variance method should be used to group clusters. The output data set is denoted with the outtree option and is called *treedat*.

3. Select the final set of clusters from the tree of cluster assignments.

The process outlined in Step 2 will produce a tree of cluster assignments, from which the final number of clusters is selected using the TREE procedure in SAS as follows:

```
proc tree data=treedat ncl=NSTARS horizontal out=outclusterdat noprint;
    id contract_id;
run;
```

The input data set, treedat, is created in Step 2 above. The syntax, ncl=NSTARS, denotes the desired final number of clusters (or star levels). For most measures, NSTARS= 5. Since the improvement measures have a constraint that contracts with improvement scores of zero or greater are to be assigned at least 3 stars for improvement, the clustering is conducted separately for contract measure scores greater than or equal to zero versus less than zero. Specifically, Steps 1-3 are first applied to contracts with improvement scores that meet or exceed zero, in which case NSTARS equals three. The resulting improvement measure stars can take on values of 3, 4, or 5. For those contracts with improvement scores less than zero, Steps 1-3 are applied with NSTARS=2 and these contracts will either receive 1 or 2 stars.

4. Final Threshold and Star Creation

The cluster assignments produced by the above approach have cluster labels that are unordered. The final step after applying the above steps to all contract measure scores is to order the cluster labels so that the 5-star category reflects the cluster with the best performance and the 1-star category reflects the cluster with the worst performance. With the exception of the lower 3-star threshold of zero for the improvement measures, the measure thresholds are defined by examining the range of measure scores within each of the final clusters. The lower limit of each cluster becomes the cut point for the star categories.

Relative Distribution and Significance Testing (CAHPS) Methodology

The CAHPS measures are case-mix adjusted to take into account differences in the characteristics of enrollees across contracts that may potentially impact survey responses. See [Attachment A](#) for the case-mix adjusters.

The percentile cut points for base groups are defined by current-year distribution of case-mix adjusted contract means. Percentile cut points are rounded to the nearest integer on the 0-100 reporting scale, and each base group includes those contracts whose rounded mean score is at or above the lower limit and below the upper limit. The number of stars assigned is determined by the position of the contract mean score relative to percentile cutoffs from the distribution of contract weighed mean scores from all contracts (which determines the base group); statistical significance of the difference of the contract mean from the national mean along with the direction of the difference; the statistical reliability of the estimate (based on the ratio of sampling variation for each contract mean to between-contract variation); and the standard error of the mean score. All statistical tests, including comparisons involving standard errors, are computed using unrounded scores.

CAHPS reliability calculation details are provided in the document, [“Instructions for Analyzing Data from CAHPS® Surveys: Using the CAHPS Analysis Program Version 4.1.”](#)

Tables K-3 and K-4 contain the rules applied to determine the final CAHPS measure star value.

Table K-3: CAHPS Star Assignment Rules

Star	Criteria for Assigning Star Ratings
1	A contract is assigned one star if both criteria (a) and (b) are met plus at least one of criteria (c) and (d): (a) its average CAHPS measure score is lower than the 15 th percentile; AND (b) its average CAHPS measure score is statistically significantly lower than the national average CAHPS measure score; (c) the reliability is not low; OR (d) its average CAHPS measure score is more than one standard error (SE) below the 15 th percentile.
2	A contract is assigned two stars if it does not meet the one-star criteria and meets at least one of these three criteria: (a) its average CAHPS measure score is lower than the 30 th percentile and the measure does not have low reliability; OR (b) its average CAHPS measure score is lower than the 15 th percentile and the measure has low reliability; OR (c) its average CAHPS measure score is statistically significantly lower than the national average CAHPS measure score and below the 60 th percentile.
3	A contract is assigned three stars if it meets at least one of these three criteria: (a) its average CAHPS measure score is at or above the 30 th percentile and lower than the 60 th percentile, AND it is not statistically significantly different from the national average CAHPS measure score; OR (b) its average CAHPS measure score is at or above the 15 th percentile and lower than the 30 th percentile, AND the reliability is low, AND the score is not statistically significantly lower than the national average CAHPS measure score; OR (c) its average CAHPS measure score is at or above the 60 th percentile and lower than the 80 th percentile, AND the reliability is low, AND the score is not statistically significantly higher than the national average CAHPS measure score.
4	A contract is assigned four stars if it does not meet the five-star criteria and meets at least one of these three criteria: (a) its average CAHPS measure score is at or above the 60 th percentile and the measure does not have low reliability; OR (b) its average CAHPS measure score is at or above the 80 th percentile and the measure has low reliability; OR (c) its average CAHPS measure score is statistically significantly higher than the national average CAHPS measure score and above the 30 th percentile.
5	A contract is assigned five stars if both criteria (a) and (b) are met plus at least one of criteria (c) and (d): (a) its average CAHPS measure score is at or above the 80 th percentile; AND (b) its average CAHPS measure score is statistically significantly higher than the national average CAHPS measure score; (c) the reliability is not low; OR (d) its average CAHPS measure score is more than one standard error (SE) above the 80 th percentile.

Table K-4: CAHPS Star Assignment Alternate Representation

Mean Score	Base Group	Signif. below avg., low reliability	Signif. below avg., not low reliability	Not signif. diff. from avg., low reliability	Not signif. diff. from avg., not low reliability	Signif. above avg., low reliability	Signif. above avg., not low reliability
< 15 th percentile by > 1 SE	1	1	1	2	2	2	2
< 15 th percentile by ≤ 1 SE		2	1	2	2	2	2
≥ 15 th to < 30 th percentile	2	2	2	3	2	3	2
≥ 30 th to < 60 th percentile	3	2	2	3	3	4	4
≥ 60 th to < 80 th percentile	4	3	4	3	4	4	4
≥ 80 th percentile by ≤ 1 SE	5	4	4	4	4	4	5
≥ 80 th percentile by > 1 SE		4	4	4	4	5	5

Notes: If reliability is very low (<0.60), the contract does not receive a Star Rating. Low reliability scores are defined as those with at least 11 respondents and reliability ≥0.60 but <0.75 and also in the lowest 12% of contracts ordered by reliability. The SE is considered when the measure score is below the 15th percentile (in base group 1), significantly below average, and has low reliability: in this case, 1 star is assigned if and only if the measure score is at least 1 SE below the unrounded base group 1/2 cut point. Similarly, the SE is considered when the measure score is at or above the 80th percentile (in base group 5), significantly above average, and has low reliability: in this case, 5 stars are assigned if and only if the measure score is at least 1 SE above the unrounded base group 4/5 cut point.

For example, a contract in base group 4 that was not significantly different from average and was low reliability would receive 3 final stars.

Attachment L: Medication Adherence Measure Calculations

Part D sponsors currently have access to monthly Patient Safety Reports via the Patient Safety Analysis Website to compare their performance to overall averages and monitor their progress in improving the Part D patient safety measures over time. Sponsors are required to use the website to view and download the reports and should be engaged in performance monitoring.

Report User Guides are available on the website under Help Documents and provide detailed information about the measure calculations and reports. The following information is an excerpt from the Adherence Measures Report Guide (Appendices B and C) and illustrates the days covered calculation and the modification for inpatient stays, hospice enrollments, and skilled nursing facility stays.

Proportion of Days Covered Calculation

In calculating the Proportion of Days Covered (PDC), we first count the number of days the patient was “covered” by at least one drug in the target drug class. The number of days is based on the prescription fill date and days’ supply. PDC is calculated by dividing the number of covered days by the number of days in the measurement period. Both of these numbers may be adjusted for IP stays, as described in the ‘Days Covered Modification for Inpatient Stays, Hospice Enrollment, and Skilled Nursing Facility Stays’ section that follows.

Example 1: Non-Overlapping Fills of Two Different Drugs

In this example, a beneficiary fills Benazepril and Captopril, two drugs in the RAS antagonist hypertension target drug class. The covered days do not overlap, meaning the beneficiary filled the Captopril prescription after the days’ supply for the Benazepril medication ended.

Table L-1: No Adjustment

	January		February		March	
	1/1/2016	1/16/2016	2/1/2016	2/16/2016	3/1/2016	3/16/2016
Benazepril	15	16	15	13		
Captopril					15	16

PDC Calculation

Covered Days: 90

Measurement Period: 90

PDC: $90/90 = 100\%$

Example 2: Overlapping Fills of the Same Generic Ingredient across Single and Combination Products

In this example, a beneficiary fills a drug with the same target generic ingredient prior to the end of the days’ supply of the first fill. In rows one and two, there is an overlap between a single and combination drug product, both containing Lisinopril. For this scenario, the overlapping days are shifted because the combination drug product includes the targeted generic ingredient. An adjustment is made to the PDC to account for the overlap in days covered.

In rows two and three, there is an overlap between two combination drug products, both containing Hydrochlorothiazide. However, Hydrochlorothiazide is not a RAS antagonist or targeted generic ingredient, so this overlap is not shifted.

Table L-2: Before Overlap Adjustment

	January		February		March	
	1/1/2016	1/16/2016	2/1/2016	2/16/2016	3/1/2016	3/16/2016
Lisinopril	15	16				
Lisinopril & HCTZ		16	15			
Benazepril & HCTZ			15	13		

PDC Calculation

Covered Days: 59

Measurement Period: 90

PDC: 59/90 = 66%

Table L-3: After Overlap Adjustment

	January		February		March	
	1/1/2016	1/16/2016	2/1/2016	2/16/2016	3/1/2016	3/16/2016
	15	16				
Lisinopril & HCTZ			15	13	3	
Benazepril & HCTZ			15	13		

PDC Calculation

Covered Days: 62

Measurement Period: 90

PDC: 62/90 = 69%

Example 3: Overlapping Fills of the Same and Different Target Drugs

In this example, a beneficiary is refilling both Lisinopril and Captopril. When a single and combination product both containing Lisinopril overlap, there is an adjustment to the PDC. When Lisinopril overlaps with Captopril, we do not make any adjustment to the days covered.

Table L-4: Before Overlap Adjustment

	January		February		March		April	
	1/1/2016	1/16/2016	2/1/2016	2/16/2016	3/1/2016	3/16/2016	4/1/2016	4/16/2016
Lisinopril	15	16						
Lisinopril & HCTZ		16	15					
Captopril					15	16		
Lisinopril						16	15	

PDC Calculation

Covered Days: 92

Measurement Period: 120

PDC: 92/120: 77%

Table L-5: After Overlap Adjustment

	January		February		March		April	
	1/1/2016	1/16/2016	2/1/2016	2/16/2016	3/1/2016	3/16/2016	4/1/2016	4/16/2016
Lisinopril	15	16						
Lisinopril & HCTZ			15	13	3			
Captopril					15	16		
Lisinopril						16	15	

PDC Calculation

Covered Days: 105

Measurement Period: 120

PDC: 105/120: 88%

PDC Adjustment for Inpatient, Hospice, and Skilled Nursing Facility Stays Examples

In response to Part D sponsor feedback, CMS modified the PDC calculation, starting with the 2013 Star Ratings (using 2011 PDE data) to adjust for beneficiary stays in inpatient (IP) facilities, and with the 2015 Star Ratings (using 2013 PDE data) to also adjust for hospice enrollments and beneficiary stays in skilled nursing facilities (SNF). These adjustments account for periods that the Part D sponsor would not be responsible for providing prescription fills for targeted medications or more accurately reflect drugs covered under the hospice benefit or waived through the beneficiary's hospice election; thus, their medication fills during an IP or SNF stay or during hospice enrollment would not be included in the PDE claims used to calculate the Patient Safety adherence measures.

The PDC modification for IP stays, hospice enrollments, and SNF stays reflects this situation. Please note that while this modification will enhance the adherence measure calculation, extensive testing indicates that most Part D contracts will experience a negligible impact on their adherence rates. On average, the 2011 adherence rates increased 0.4 to 0.6 percentage points due to the inpatient stay adjustment, and the adjustment may impact the rates positively or negatively.

The hospice and SNF adjustments were tested on 2013 PDE data and overall increased the rates by 0.13 to 0.15 percentage points and 0.29 to 0.35 percentage points, respectively. While hospice information from the Medicare Enrollment Database (EDB) and inpatient claims from the Common Working File (CWF) are available for both PDPs and MA-PDs, SNF claims are only available for Medicare Fee-for-Service (FFS) beneficiaries who are also enrolled in PDPs. Therefore, the SNF adjustment will only impact PDP sponsors at this time.

Calculating the PDC Adjustment for IP Stays, Hospice Enrollments, and SNF Stays

The PDC modification for IP stays, hospice enrollments, and SNF stays is based on two assumptions: 1) a beneficiary receives their medications through the facility during IP or SNF stay or has drugs covered under the hospice benefit or waived through the beneficiary's hospice election, and 2) if a beneficiary accumulates an extra supply of their Part D medication during an IP stay, hospice enrollment, or SNF stay, that supply can be used once he/she returns home. The modification is applied using the steps below:

1. Identify start and end dates of relevant types of stays or hospice enrollments for beneficiaries included in adherence measures.
 - Use IP claims from the CWF to identify IP stays.
 - Use SNF claims with positive payment amounts from the CWF to identify SNF stays.
 - Use hospice records from the EDB to identify hospice enrollments.
2. Remove days of relevant stays occurring during the measurement period from the numerator and denominator of the proportion-of-days covered calculation.
3. Shift days' supply from Part D prescription fills that overlap with the stay to uncovered days after the end of the relevant stay, if applicable. This assumes the beneficiary receives the relevant medication from a different source during the stay and accumulates the Part D prescription fills for later use.

The following examples provide illustrations of the implementation of these assumptions when calculating PDC.

Example 1: Gap in Coverage after IP Stay

In this example, the measurement period is 15 days and the beneficiary qualifies for inclusion in the measure by receiving at least 2 fills. This beneficiary had drug coverage on days 1-8 and 12-15 and an IP stay on days 5 and 6, as illustrated in Table L-6.

Table L-6: Before Adjustment

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Drug Coverage	X	X	X	X	X	X	X	X				X	X	X	X
Inpatient Stay					+	+									

PDC Calculation:

Covered Days: 12

Measurement Period: 15

PDC: $12/15 = 80\%$

With the adjustment for the IP stay, days 5 and 6 are deleted from the measurement period. Additionally, the drug coverage during the IP stay is shifted to subsequent days of no supply (in this case, days 9 and 10), based on the assumption that if a beneficiary received his/her medication through the hospital on days 5 and 6, then he/she accumulated two extra days' supply during the IP stay. The two extra days' supply is used to cover the gaps in Part D drug coverage in days 9 and 10. This is illustrated in Table L-7.

Table L-7: After Adjustment

Day	1	2	3	4	7	8	9	10	11	12	13	14	15
Drug Coverage	X	X	X	X	X	X	X	X		X	X	X	X
Inpatient Stay													

PDC Calculation:

Covered Days: 12

Measurement Period: 13

PDC: $12/13 = 92\%$ **Example 2: Gap in Coverage before IP Stay**

In this example, the measurement period is 15 days and the beneficiary qualifies for inclusion in the measure by receiving at least 2 fills. This beneficiary had drug coverage from days 1-7 and 12-15, and an IP stay on days 12 and 13, as illustrated in Table L-8.

Table L-8: Before Adjustment:

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Drug Coverage	X	X	X	X	X	X	X					X	X	X	X
Inpatient Stay												+	+		

PDC Calculation:

Covered Days: 11

Measurement Period: 15

PDC: $11/15 = 73\%$

With the adjustment for the IP stay, days 12 and 13 are deleted from the measurement period. While there are two days' supply from the IP stay on days 12 and 13, there are no days without drug coverage after the IP stay. Thus, the extra days' supply are not shifted. This is illustrated in Table L-9.

Table L-9: After Adjustment

Day	1	2	3	4	5	6	7	8	9	10	11	14	15
Drug Coverage	X	X	X	X	X	X	X					X	X
Inpatient Stay													

PDC Calculation:

Covered Days: 9

Measurement Period: 13

PDC: $9/13 = 69\%$

Example 3: Gap in Coverage Before and After IP Stay

In this example, the measurement period is 15 days and the beneficiary qualifies for inclusion in the measure by receiving at least 2 fills. This beneficiary had drug coverage from days 1-3, 6-9, and 12-15, and an IP stay on days 6-9, as illustrated in Table L-10.

Table L-10: Before Adjustment

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Drug Coverage	X	X	X			X	X	X	X			X	X	X	X
Inpatient Stay						+	+	+	+						

PDC Calculation:

Covered Days: 11

Measurement Period: 15

PDC: $11/15 = 73\%$

With the adjustment for the IP stay, days 6-9 are deleted from the measurement period. Additionally, the drug coverage during the IP stay can be applied to any days without drug coverage after the IP stay, based on the assumption that the beneficiary received his/her medication through the hospital on days 6-9. In this case, only days 10 and 11 do not have drug coverage and are after the IP stay, so two days' supply are shifted to days 10 and 11. This is illustrated in Table L-11.

Table L-11: After Adjustment

Day	1	2	3	4	5	10	11	12	13	14	15
Drug Coverage	X	X	X			X	X	X	X	X	X
Inpatient Stay											

PDC Calculation:

Covered Days: 9

Measurement Period: 11

PDC: $9/11 = 82\%$

Attachment M: Methodology for Price Accuracy Measure

CMS' drug pricing performance measure evaluates the accuracy of prices displayed on Medicare Plan Finder (PF) for beneficiaries' comparison of plan options. The accuracy score is calculated by comparing the PF price to the PDE price and determining the magnitude of differences found when the latter exceeds the former. This document summarizes the methods currently used to construct each contract's accuracy index.

Contract Selection

The Part D Star Ratings rely in part on the submission of pricing data to PF. Therefore, only contracts with at least one plan meeting all of the following criteria are included in the analysis:

- Not a PACE plan
- Not a demonstration plan
- Not an employer plan
- Part D plan
- Plan not terminated during the contract year

Only contracts with at least 30 claims throughout the year are included in the accuracy measure. This ensures that the sample size of PDEs is large enough to produce a reliable accuracy score. Only covered drugs for PDEs that are not compound claims are included.

PF Price Accuracy Index

To calculate the PF Price Accuracy index, the point of sale cost (ingredient costs plus dispensing fee) reported on each PDE claim is compared to the cost resulting from using the unit price reported on Plan Finder.¹ This comparison includes only PDEs for which a PF cost can be assigned. In particular, a PDE must meet seven conditions to be included in the analysis:

1. The NCPDP number for the pharmacy on the PDE claim must appear in the pharmacy cost file as either a retail-only pharmacy or a retail and limited access-only pharmacy. PDE with NPI numbers reported as non-retail pharmacy types or both retail and mail order/HI/LTC are excluded. NCPDP numbers are mapped to their corresponding NPI numbers.
2. The corresponding reference NDC must appear under the relevant price ID for the pharmacy in the pricing file.²
3. The reference NDC must be on the plan's formulary.
4. Because the retail unit cost reported on Plan Finder is intended to apply to a 30-day supply of a drug, only claims with a 30-day supply are included. Claims reporting a different day supply value are excluded.
5. PDEs for dates of service during which the plan was suppressed from Plan Finder or where the relevant pharmacy or drug was not reported in Plan Finder are not included since no Plan Finder cost can be assigned.³
6. PDEs for compound drugs or non-covered drugs are not included.
7. The PDE must occur in quarter 1 through 3 of the year. Quarter 4 PDEs are not included because PF prices are not updated during this last quarter.

¹ Plan Finder unit costs are reported by plan, drug, and pharmacy. The plan, drug, and pharmacy from the PDE are used to assign the corresponding Plan Finder unit cost posted on medicare.gov on the date of the PDE.

² Plan Finder prices are reported at the reference NDC level. A reference NDC is a representative NDC of drugs with the same brand name, generic name, strength, and dosage form. To map NDCs on PDEs to a reference NDC, we use First Data Bank (FDB) and Medi-Span to create an expanded list of NDCs for each reference NDC, consisting of NDCs with the same brand name, generic name, strength, and dosage form as the reference NDC. This expanded NDC list allows us to map PDE NDCs to PF reference NDCs.

³ Because CMS continues to display pharmacy and drug pricing data for sanctioned plans on MPF to their current enrollees, sanctioned plans are not excluded from this measure. If, however, CMS completely suppresses a sanctioned contract's data from MPF display, then they would be excluded from the measure.

Once PF unit ingredient costs are assigned, the PF ingredient cost is calculated by multiplying the unit costs reported on PF by the quantity listed on the PDE.⁴ The PDE cost (TC) is the sum of the PDE ingredient cost paid and the PDE dispensing fee. Likewise, the PF TC is the sum of the PF ingredient cost and the PF dispensing fee that corresponds to the same pharmacy and plan as that observed in the PDE. Each claim is then given a score based on the difference between the PDE TC and the PF TC. If the PDE TC is lower than the PF TC, the claim receives a score equal to zero. In other words, contracts are not penalized when point of sale costs are lower than the advertised costs. However, if the PDE TC is higher than the PF TC, then the claim receives a score equal to the difference between the PDE TC and the PF TC.^{5, 6} The contract level PF Price Accuracy index is the sum of the claim level scores across all PDEs that meet the inclusion criteria. Note that the best possible PF Price Accuracy Index is 1. This occurs when the PF TC is never lower than the PDE TC. The formula below illustrates the calculation of the contract level PF Price Accuracy Index:

$$A_j = \frac{\sum_i \max(TC_{iPDE} - TC_{iPF}, 0) + \sum_i TC_{iPDE}}{\sum_i TC_{iPDE}}$$

where

TC_{iPDE} is the ingredient cost plus dispensing fee reported in PDE_i , and

TC_{iPF} is the ingredient cost plus dispensing fee calculated from PF data, based on the PDE_i reported NDC, days of supply and pharmacy.

We use the following formula to convert the Price Accuracy Index into a score:

$$100 - ((\text{accuracy index} - 1) \times 100)$$

The score is rounded to the nearest whole number.

⁴ For PDEs with outlying values of reported quantities, we adjust the quantity using drug- and plan-level distributions of price and quantity.

⁵ To account for potential rounding errors, this analysis requires that the PDE cost exceed the PF cost by at least half a cent (\$0.005) in order to be counted towards the accuracy score. For example, if the PDE cost is \$10.25 and the PF cost is \$10.242, the .008 cent difference would be counted towards the plan's accuracy score. However, if the PF cost is higher than \$10.245, the difference would not be considered problematic, and it would not count towards the plan's accuracy score.

⁶ The PF data includes floor pricing. For plan-pharmacy drugs with a floor price, if the PF price is lower than the floor price, the PDE price is compared against the floor price.

Example of Accuracy Index Calculation

Table M-1 shows an example of the Accuracy Index calculation. This contract has 4 claims, for 4 different NDCs and 4 different pharmacies. This is an abbreviated example for illustrative purposes only; in the actual accuracy index, a contract must have 30 claims to be evaluated.

From each of the 4 claims, the PDE ingredient cost, dispensing fee, and quantity dispensed are obtained. Additionally, the plan ID, date of service, and pharmacy number are collected from each PDE to identify the PF data that had been submitted by the contract and posted on Medicare.gov on the PDE dates of service. The NDC on the claim is first assigned the appropriate reference NDC, based on the brand name, generic name, strength, and dosage form. Using the reference NDC, the following PF data are obtained: brand/generic dispensing fee (as assigned by the pharmacy cost file) and 30 day unit cost (as assigned by the Price File corresponding to that pharmacy on the date of service). The PDE cost is the sum of the PDE ingredient cost and dispensing fee. The PF cost is computed as the quantity dispensed from PDE multiplied by the PF unit cost plus the PF brand/generic dispensing fee (brand or generic status is assigned based on the NDC).

The last column shows the amount by which the PDE cost is higher than the PF cost. When PDE cost is less than PF cost, this value is zero. The accuracy index is the sum of the last column plus the sum of PDE costs divided by the sum of PDE costs.

Table M-1: Example of Price Accuracy Index Calculation

NDC	Pharmacy Number	PDE Data DOS	PDE Data Ingredient Cost	PDE Data Dispensing Fee	PDE Data Quantity Dispensed	PF Data Biweekly Posting Period	PF Data Unit Cost for 30 Day Supply	PF Data Dispensing Fee Brand	PF Data Dispensing Fee Generic	Calculated Value Brand or Generic Status	Calculated Value Total Cost PDE	Calculated Value Total Cost PF	Calculated Value Amount that PDE is higher than PF
A	111	01/08/2014	3.82	2	60	01/02/15 - 01/15/15	0.014	2.25	2.75	B	5.82	3.09	2.73
B	222	01/24/2014	0.98	2	30	01/16/15 - 01/29/15	0.83	1.75	2.5	G	2.98	27.40	0
C	333	02/11/2014	10.48	1.5	24	01/30/15 - 02/12/15	0.483	2.5	2.5	B	11.98	14.09	0
D	444	02/21/2014	47	1.5	90	02/13/15 - 02/26/15	0.48	1.5	2.25	G	48.5	45.45	3.05
PDE = Prescription Drug Event PF = Plan Finder										Totals	69.28		5.78
										Accuracy Index			1.08343
										Accuracy Score			92

Attachment N: MTM CMR Completion Rate Measure Scoring Methodologies

Medicare Part D Reporting Requirements Measure (D14: MTM CMR Completion Rate Measure)

- Step 1: Start with all contracts that enrolled beneficiaries in MTM at any point during contract year 2016.
- Step 2: Exclude contracts that did not enroll 31 or more beneficiaries in their MTM program who met the measure denominator criteria during contract year 2016.

Next, exclude contracts with an effective termination date on or before the deadline to submit data validation results to CMS (June 30, 2017), or that were not required to participate in data validation.

Additionally, exclude contracts that did not score at least 95% on data validation for their plan reporting of the MTM Program section and contracts that scored 95% or higher on data validation for the MTM Program section but that were not compliant with data validation standards/sub-standards for at least one of the following MTM data elements:

- HICN or RRB Number (Element B)
- Met the specified targeting criteria per CMS – Part D requirements (Element G)
- Date of MTM program enrollment (Element I)
- Date met the specified targeting criteria per CMS – Part D requirements (Element J)
- Date of MTM program opt-out, if applicable (Element K)
- Received annual CMR with written summary in CMS standardized format (Element O)
- Date(s) of CMR(s) with written summary in CMS standardized format (Element Q)

- Step 3: After removing contracts' and beneficiaries' data excluded above, suppress contract rates based on the following rules:

File DV failure: Contracts that failed to submit the CY 2016 MTM Program Reporting Requirements data file or who had a missing DV score for MTM are listed as “CMS identified issues with this plan's data.”

Section-level DV failure: Contracts that score less than 95% in DV for their CY 2016 MTM Program Reporting Requirements data are listed as “CMS identified issues with this plan's data.”

Element-level DV failure: Contracts that score 95% or higher in DV for their CY 2016 MTM Program Reporting Requirements data but that failed at least one of the four data elements are listed as “CMS identified issues with this plan's data.”

Small size: Contracts that have not yet been suppressed and have fewer than 31 beneficiaries enrolled are listed as “Not enough data available.”

Organizations can view their own plan reporting data validation results in HPMS (<https://hpms.cms.gov/>). From the home page, select Monitoring | Plan Reporting Data Validation.

- Step 4: Calculate the rate for the remaining contracts using the following formula:

Number of beneficiaries from the denominator who received a CMR at any time during their period of MTM enrollment in the reporting period / Number of beneficiaries who were at least 18 years or older as of the beginning of the reporting period, met the specified targeting criteria per CMS during the reporting period, weren't in hospice at any point during the reporting period, and who were enrolled in the MTM program for at least 60 days during the reporting period.

Attachment O: Methodology for the Puerto Rico Model

Puerto Rico has a unique health care market with a large percentage of low-income individuals in both Medicare and Medicaid and a complex legal history that affects the health care system in many ways. Puerto Rican beneficiaries are not eligible for LIS. The categorization of contracts into final adjustment categories for the Categorical Adjustment Index (CAI) relies on both the use of a contract's percentages of beneficiaries with Low Income Subsidy/Dual Eligible (LIS/DE) and disabled beneficiaries. Since the percentage of LIS/DE is a critical element in the categorization of contracts to identify the contract's CAI, an additional adjustment is done for contracts that solely serve the population of beneficiaries in Puerto Rico to address the lack of LIS. The additional analysis for the adjustment results in a modified percentage of LIS/DE beneficiaries that is subsequently used to categorize the contract in its final adjustment category for the CAI.

The contract-level modified LIS/DE percentage for Puerto Rico for the 2018 Star Ratings is developed using the following sources of information:

1. The 2015 1-year American Community Survey (ACS) estimates for the percentage of people living below the Federal Poverty Level (FPL);
2. The 2015 ACS 5-year estimates for the percentage of people living below 150% of the FPL;¹
3. The Medicare enrollment data file from CY 2016 provided for beneficiaries in the 10 states with the highest poverty rates for the percentage of a contract's DE beneficiaries using the monthly beneficiary dual status code and the contract percentage of monthly beneficiary LIS status codes. The Puerto Rico DE percentages came from the average percent of Medicaid beneficiaries from the HPMS monthly contract enrollment data for the measurement 2016 year.

The following steps are employed to determine the modified percentages of LIS/DE for MA contracts solely serving the population of beneficiaries in Puerto Rico.

1. The 10 states with the highest proportion of people living below the FPL are identified, based on 2015 1-year data from ACS (<https://www.census.gov/content/dam/Census/library/publications/2016/demo/acsbr15-01.pdf>, see Table 1). *The states identified are: Alabama, Arizona, Arkansas, District of Columbia, Georgia, Kentucky, Louisiana, Mississippi, New Mexico, and West Virginia.*
2. Data are aggregated from Medicare Advantage contracts that had at least 90% of their beneficiaries enrolled with mailing addresses within the 10 highest poverty states identified in step (1). *For the 2018 Star Ratings adjustment, the data used for the model development included a total of 62 Medicare Advantage contracts with at least 90% of their beneficiaries with mailing addresses in one of the ten states.*
3. A linear regression model is developed using the known LIS/DE percentage and the corresponding DE percentage from the MA contracts in the 10 highest poverty states with at least 90% of their beneficiaries with mailing addresses in one of the ten states
4. The model for Puerto Rico is developed using the model in step (3) as its base.

The estimated slope from the linear fit in the previous step (3) is retained to approximate the expected relationship between LIS/DE for each contract in Puerto Rico and its DE percentage. However, as Puerto Rico contracts are expected to have a larger percentage of low income beneficiaries, the intercept term is adjusted to be more suitable for use with Puerto Rico contracts as follows:

The intercept term for the Puerto Rico model is estimated by assuming that the Puerto Rico model will pass through the point (x, y) where x is the observed average DE percentage in the Puerto Rico contracts, and y is the expected average percentage of LIS/DE in Puerto Rico. The expected average percentage of LIS/DE in Puerto Rico (the y value) is not observable, but is estimated by multiplying the observed average percentage of LIS/DE in the 10 highest poverty states identified in step (1) by the

¹ The most recent ACS 5-year estimates are employed for the model development. For the 2018 Star Ratings, the most recent data are the 2015 ACS 5-year estimates.

ratio based on the 2015 5-year ACS estimates of the percentage living below 150% of the FPL in Puerto Rico compared to the corresponding percentage in the mainland US.

5. To obtain each Puerto Rico contract's modified LIS/DE percentage, a contract's observed DE percentage is used in the Puerto Rico model developed in the previous step (4).

A contract's observed DE percentage is multiplied by the slope estimate, and then, the newly derived intercept term is added to the product. The estimated modified LIS/DE percentage is capped at 100%. Any estimated LIS/DE percentage that exceeds 100% is categorized in the final adjustment category for LIS/DE with an upper bound of 100%.

All estimated modified LIS/DE for Puerto Rico are rounded to six decimal places when expressed as a percentage. (This rounding rule aligns with the limits for the adjustment categories for LIS/DE for the CAI.)

Model

The generic model developed to estimate a contract's LIS/DE percentage using its DE percentage is as follows:

$$\widehat{\text{LIS/DE}} = (\text{Slope} * \text{contract's DE percentage}) + (\text{intercept})$$

Using the data from the 10 highest poverty states, the estimated slope was calculated to be 0.940167.

$$\widehat{\text{LIS/DE}} = (0.940167 * \text{contract's DE percentage}) + (\text{intercept})$$

Next, the intercept for the Puerto Rico model was determined using the point (x, y) where x is the observed average DE percentage in Puerto Rico contracts (29.562500%) and y is an estimated expected average percentage of LIS/DE in Puerto Rico.

To calculate the estimated expected average percentage of LIS/DE in Puerto Rico, the observed average percentage of LIS/DE in the 10 poorest US mainland states identified in step (1) is multiplied by the ratio of the percentage of Puerto Rico residents living below 150% of the FPL to the analogous percentage of US mainland residents.

Description	Value
Percent of PR residents below 150% of FPL	61.900000%
Percent of US residents below 150% of FPL	29.968496%
Observed average LIS/DE percentage in the 10 poorest US states	37.502379%
Observed average DE percentage in Puerto Rico contracts	29.562500%

The product thus becomes $\left(37.502379 * \frac{61.900000}{29.968496} \right)$.

The new intercept for the Puerto Rico model is as follows:

$$\text{new intercept} = \left(37.502379 * \frac{61.900000}{29.968496} \right) - (0.940167 * 29.562500)$$

The final model to estimate the percentage of LIS/DE in Puerto Rico model is as follows:

$$\widehat{\text{LIS/DE}} = (0.940167 * \text{contract's DE percentage}) + \left(\left(37.502379 * \frac{61.900000}{29.968496} \right) - (0.940167 * 29.562500) \right)$$

Example

To calculate the contract-level modified LIS/DE percentage for a hypothetical contract from Puerto Rico with an observed DE percentage of 25%, the value of 25.000000% is used in the model developed.

$$\widehat{\text{LIS/DE}} = (0.940167 * \text{contract's DE percentage}) + \left(37.502379 * \frac{61.900000}{29.968496} - (0.940167 * 29.562500) \right)$$

The contracts percentage of 25.000000% is substituted into the Puerto Rico model.

$$\widehat{\text{LIS/DE}} = (0.940167 * 25.000000) + \left(37.502379 * \frac{61.900000}{29.968496} - (0.940167 * 29.562500) \right)$$

The contract-level modified LIS/DE percentage for the Puerto Rico contract that has an observed DE percentage of 25.000000% is 73.171741%.

The final adjustment category for the CAI adjustment is identified using the DE percentage of 25.000000% and the LIS/DE percentage of 73.171741%.

Attachment P: Missing Data Messages

CMS uses a standard set of messages in the Star Ratings when there are no numeric data available for a contract. This attachment provides the rules for assignment of those messages in each level of the Star Ratings.

Measure level messages

Table P-1 contains all of the possible messages that could be assigned to missing data at the measure level.

Table P-1: Measure level missing data messages

Message	Measure Level
Coming Soon	Used for all measures in MPF between Oct 1 and when the actual Star Rating data go live
Medicare shows only a Star Rating for this topic	Used in the numeric data for the Part C & D improvement measures in MPF and Plan Preview 2
Not enough data available	There were data for the contract, but not enough to pass the measure exclusion rules
CMS identified issues with this plan's data	Data were materially biased, erroneous and/or not reported by a contract required to report
Not Applicable	Used in the numeric data for the improvement measures in Plan Preview 1. In the HPMS Measure Star Page when a measure does not apply for a contract. When a Disenrollment Reasons Survey measure does not apply to the contract type.
Benefit not offered by plan	The contract was required to report this HEDIS measure but doesn't offer the benefit to members
Plan too new to be measured	The contract is too new to have submitted measure data
No data available	There were no data for the contract included in the source data for the measure
Plan too small to be measured	The contract had data but did not have enough enrollment to pass the measure exclusion rules
Plan not required to report measure	The contract was not required to report the measure

Assignment rules for Part C measure messages

Part C uses a set of rules for assigning the missing data message that varies by the data source. The rules for each data source are defined below.

Appeals (IRE) measures (C32 & C33):

Has CMS identified issues with the contract's data?

Yes: Display message: CMS identified issues with this plan's data

No: Is there a valid numeric measure rate?

Yes: Display the numeric measure rate

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Beneficiary Access and Performance Problems (CMS Administrative Data) measure (C30):

Is there a valid numeric BAPP score?

Yes: Display the numeric BAPP score

No: Is the contract effective date ≥ 01/01/2017?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

CAHPS measures (C03, C22, C23, C24, C25, C26, & C27):

Is there a valid numeric CAHPS measure rate?

Yes: Display the numeric CAHPS measure rate

No: Is the contract effective date > 07/01/2016?

Yes: Display message: Plan too new to be measured

No: Is the CAHPS measure rate NR?

Yes: Display message: Not enough data available

No: Is the CAHPS measure rate NA?

Yes: Display message: No data available

No: Display message: Plan too small to be measured

Call Center – Foreign Language Interpreter and TTY Availability measure (C34):

Is there a valid call center numeric rate?

Yes: Display the call center numeric rate

No: Is the organization type 1876 Cost?

Yes: Display message: Plan not required to report measure

No: Is the contract effective date > 05/31/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Complaints (CTM) measure (C28):

Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Was the average contract enrollment < 800 in 2016?

Yes: Display message: Not enough data available

No: Is there a valid numeric CTM rate?

Yes: Display the numeric CTM rate

No: Display message: No data available

HEDIS measures (C01, C02, C07, C12 – C17 & C20):

Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Was the contract required to report HEDIS?

Yes: Was the contract enrollment < 500 in July 2016?

Yes: Display message: Plan too small to be measured

No: What is the HEDIS measure audit designation?

BD: Display message: CMS identified issues with this plan's data

BR: Display message: CMS identified issues with this plan's data

NA: Display message: Not enough data available

NB: Display message: Benefit not offered by plan

NR: Display message: CMS identified issues with this plan's data

NQ: Display message: Plan not required to report measure

R: Was a valid patient level detail file 1 submitted and the measure data usable?

Yes: Was contract enrollment at least 500 but less than 1,000?

Yes: Is the measure reliability at least 0.7?

Yes: Display the HEDIS measure numeric rate

No: Display message: No data available

No: Display the HEDIS measure numeric rate

No: Display message: CMS identified issues with this plan's data

No: Display message: Plan not required to report measure

HEDIS PCR measure (C21)

Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Was the contract required to report HEDIS?

Yes: Was the contract enrollment < 500 in July 2016?

Yes: Display message: Plan too small to be measured

No: What is the HEDIS measure audit designation?

BD: Display message: CMS identified issues with this plan's data

BR: Display message: CMS identified issues with this plan's data

NA: Display message: Not enough data available

NB: Display message: Benefit not offered by plan

NR: Display message: CMS identified issues with this plan's data

NQ: Display message: Plan not required to report measure

R: Was a valid patient level detail file 2 submitted and the measure data usable?

Yes: Was contract enrollment at least 500 but less than 1,000?

Yes: Is the measure reliability at least 0.7?

Yes: Display the HEDIS measure numeric rate

No: Display message: No data available

No: Display the HEDIS measure numeric rate

No: Display message: CMS identified issues with this plan's data

No: Display message: Plan not required to report measure

HEDIS SNP measures (C09, C10, & C11):

Is the organization type (1876 Cost, PFFS, MSA) or SNP offered in 2018= No?

Yes: Display message: Plan not required to report measure

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: What is the HEDIS measure audit designation?

BD: Display message: CMS identified issues with this plan's data

BR: Display message: CMS identified issues with this plan's data

NA: Display message: Not enough data available

NB: Display message: Benefit not offered by plan

NR: Display message: CMS identified issues with this plan's data

NQ: Display message: Plan not required to report measure

R: Is there a valid HEDIS measure numeric rate?

Yes: Display the HEDIS measure numeric rate

No: Display message: No data available

HEDIS / HOS measures (C06, C18, & C19):

Is there a valid HEDIS / HOS numeric rate?

Yes: Display the HEDIS / HOS numeric rate

No: Is the contract effective date > 01/01/2015?

Yes: Display message: Plan too new to be measured

No: Is the contract enrollment < 500?

Yes: Display message: Plan too small to be measured

No: Is there a HEDIS / HOS rate code?

Yes: Assign message according to value below:

NA: Display message: Not enough data available

NB: Display message: Benefit not offered by plan

No: Display message: No data available

HOS measures (C04 & C05):

Is there a valid numeric HOS measure rate?

Yes: Display the numeric HOS rate

No: Was the HOS measure rate NA?

Yes: Display message: No data available

No: Is the contract effective date > 01/01/2013?

Yes: Display message: Plan too new to be measured

No: Was the contract enrollment < 500 at time of baseline collection?

Yes: Display message: Plan too small to be measured

No: Display message: Not enough data available

Members Choosing to Leave the Plan (C29):

Is there a valid numeric voluntary disenrollment rate?

Yes: Display the numeric voluntary disenrollment rate

No: Is the contract effective date ≥ 01/01/2017?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Plan Reporting SNP measure (C08):

Is the organization type (1876 Cost, PFFS, MSA) or SNP offered in 2018 = No?

Yes: Display message: Plan not required to report measure

No: Is there a valid Plan Reporting numeric rate?

Yes: Display the Plan Reporting numeric rate

No: Were there Data Issues Found?

Yes: Display message: CMS identified issues with this plan's data

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: No data available

Improvement (Star Ratings) measure (C31):

Is there a valid improvement measure rate?

Yes: Display message: Medicare shows only a Star Rating for this topic

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Assignment rules for Part D measure messages*Appeals Auto-Forward (IRE) measure (D02):*

Has CMS identified issues with the contract's data?

Yes: Display message: CMS identified issues with this plan's data

No: Was the average contract enrollment < 800 in 2016?

Yes: Display message: Not enough data available

No: Is the contract effective date > 12/31/2016?

Yes: Display message: Plan too new to be measured

No: Is there a valid numeric measure rate?

Yes: Display numeric measure rate

No: Display message: No data available

Appeals Upheld (IRE) measure (D03):

Has CMS identified issues with the contract's data?

Yes: Display message: CMS identified issues with this plan's data

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Were fewer than 10 cases reviewed by the IRE?

Yes: Display message: Not enough data available

No: Is there a valid numeric measure percentage?

Yes: Display numeric measure percentage

No: Display message: No data available

Beneficiary Access and Performance Problems (CMS Administrative Data) measure (D06):

Is there a valid numeric BAPP score?

Yes: Display the numeric BAPP score

No: Is the contract effective date ≥ 01/01/2017?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

CAHPS measures (D08, D09):

Is there a valid numeric CAHPS measure rate?

Yes: Display the numeric CAHPS measure rate

No: Is the contract effective date > 07/01/2016?

Yes: Display message: Plan too new to be measured

No: Is the CAHPS measure rate NR?

Yes: Display message: Not enough data available

No: Is the CAHPS measure rate NA?

Yes: Display message: No data available

No: Display message: Plan too small to be measured

Call Center – Foreign Language Interpreter and TTY Availability measure (D01):

Is there a valid call center numeric rate?

Yes: Display the call center numeric rate

No: Is the organization type 1876 Cost?

Yes: Display message: Plan not required to report measure

No: Is the contract effective date > 05/31/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Complaints (CTM) measure (D04):

Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Was the average contract enrollment < 800 in 2016?

Yes: Display message: Not enough data available

No: Is there a valid numeric CTM rate?

Yes: Display the numeric CTM rate

No: Display message: No data available

Improvement (Star Ratings) measure (D07):

Is there a valid improvement measure rate?

Yes: Display message: Medicare shows only a Star Rating for this topic

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Members Choosing to Leave the Plan (D05):

Is there a valid numeric voluntary disenrollment rate?

Yes: Display the numeric voluntary disenrollment rate

No: Is the contract effective date ≥ 01/01/2017?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

MPF Price Accuracy measure (D10):

Is the contract effective date > 9/30/2016?

Yes: Display message: Plan too new to be measured

No: Does contract have at least 30 claims over the measurement period for the price accuracy index?

Yes: Display the numeric price accuracy rate

No: Is the organization type 1876 Cost and does not offer Drugs?

Yes: Display message: Plan not required to report measure

No: Display message: Not enough data available

Patient Safety measures – Adherence (D11 - D13):

Is the contract effective date > 12/31/2016?

Yes: Display message: Plan too new to be measured

No: Does contract have 30 or fewer enrolled beneficiary member years (measure denominator)?

Yes: Display message: Not enough data available

No: Display numeric measure percentage

Patient Safety measure – MTM CMR (D14)

Is the contract effective date > 12/31/2016?

Yes: Display message: Plan too new to be measured

No: Is Part D Offered=False?

Yes: Display message: Plan not required to report measure

No: Is there a numeric rate?

Yes: Display numeric measure percentage

No: Is there a Reason(s) for Display Message?

Yes: Display appropriate message per table P-2

Table P-2: MTM CMR Reason(s) for Display Message conversion

Reason(s) for Display Message	Star Ratings Message
Contract failed to submit file and pass system validation by the reporting deadline	CMS identified issues with this plan's data
Contract did not pass element-level DV for at least one element	CMS identified issues with this plan's data
Contract had missing score on MTM section DV	CMS identified issues with this plan's data
Contract scored less than 95% on MTM section DV	CMS identified issues with this plan's data
Contract had all plans terminate by validation deadline	No data available
Contract had no MTM enrollees to report	No data available
Contract has 0 Part D enrollees	No data available
Contract had 30 or fewer beneficiaries meeting denominator criteria	Not enough data available
Contract not required to submit MTM program	Not required to report

Domain, Summary and Overall level messages

Table P-3 contains all of the possible messages that could be assigned to missing data at the domain, summary, and overall levels.

Table P-3: Domain, Summary, and Overall level missing data messages

Message	Domain Level	Summary & Overall Level
Coming Soon	Used for all domain ratings in MPF between Oct 1 and when the actual Star Rating data go live	Used for all summary and overall ratings in MPF between Oct 1 and when the actual Star Rating data go live
Not enough data available	The contract did not have enough rated measures to calculate the domain rating	The contract did not have enough rated measures to calculate the summary or overall rating
Plan too new to be measured	The contract is too new to have submitted measure data for a domain rating to be calculated	The contract is too new to have submitted data to be rated in the summary or overall levels

Assignment rules for Part C & Part D domain rating level messages

Part C & D domain message assignment rules:

Is there a numeric domain star?

Yes: Display the numeric domain star

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Assignment rules for Part C & Part D summary rating level messages

Part C & D summary rating message assignment rules:

Is there a numeric summary rating star?

Yes: Display the numeric summary rating star

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Assignment rules for overall rating level messages

Overall rating message assignment rules:

Is there a numeric overall rating star?

Yes: Display the numeric overall rating star

No: Is the contract effective date > 01/01/2016?

Yes: Display message: Plan too new to be measured

No: Display message: Not enough data available

Disenrollment Reasons messages

The 2018 Star Ratings posted to the Medicare Plan Finder includes data collected from the Disenrollment Reasons Survey (DRS). The DRS data was not used at any point in the calculation of the Star Ratings. The data are provided in MPF for beneficiary information only, and are shown in HPMS with the Star Ratings data so organizations can preview them prior to public posting.

Because there are instances where a contract does not have data to display, a set of rules was developed to assign messages where data was missing so the data area would not be left blank.

Table P-4 contains all of the possible messages that could be assigned to missing data in the disenrollment reason data displayed in the Medicare Plan finder and HPMS.

Table P-4: Disenrollment Reason missing data messages

Message	Meaning
Coming Soon	Used for all ratings in MPF between Oct 1 and when the actual data go live
Not Applicable	Used when the DRS measure does not apply to the contract type
Not Available	Used when there is no numeric data available for the DRS measure
Plan too new to be measured	The contract is too new for data to be collected for the measure

Disenrollment Reasons message assignment rules:

Is the contract effective date > 1/1/2016?

Yes: Display message: Plan too new to be measured

No: Is there numeric data for the contract in this DRS measure?

Yes: Display the numeric DRS rate

No: Does the DRS measure apply to the organization type

Yes: Display message: Not Available

No: Display message: Not Applicable

Attachment Q: Glossary of Terms

AEP	The annual period from October 15 until December 7 when a Medicare beneficiary can enroll into a Medicare Part D plan or re-enroll into their existing Medicare Part D Plan or change into another Medicare Part D plan is known as the Annual Election Period (AEP). Beneficiaries can also switch to a Medicare Advantage Plan that has a Prescription Drug Plan (MA-PD). The chosen Medicare Part D plan coverage begins on January 1 st .
CAHPS	The term CAHPS refers to a comprehensive and evolving family of surveys that ask consumers and patients to evaluate the interpersonal aspects of health care. CAHPS surveys probe those aspects of care for which consumers and patients are the best and/or only source of information, as well as those that consumers and patients have identified as being important. CAHPS initially stood for the Consumer Assessment of Health Plans Study, but as the products have evolved beyond health plans, the acronym now stands for Consumer Assessment of Healthcare Providers and Systems.
CCP	A Coordinated Care Plan (CCP) is a health plan that includes a network of providers that are under contract or arrangement with the organization to deliver the benefit package approved by CMS. The CCP network is approved by CMS to ensure that all applicable requirements are met, including access and availability, service area, and quality requirements. CCPs may use mechanisms to control utilization, such as referrals from a gatekeeper for an enrollee to receive services within the plan, and financial arrangements that offer incentives to providers to furnish high quality and cost-effective care. CCPs include HMOs, PSOs, local and regional PPOs, and senior housing facility plans. SNPs can be offered under any type of CCP that meets CMS' requirements.
Cohort	A cohort is a group of people who share a common designation, experience, or condition (e.g., Medicare beneficiaries). For the HOS, a cohort refers to a random sample of Medicare beneficiaries that is drawn from each Medicare Advantage Organization (MAO) with a minimum of 500 enrollees and surveyed every spring (i.e., a baseline survey is administered to a new cohort each year). Two years later, the baseline respondents are surveyed again (i.e., follow up measurement). For data collection years 1998-2006, the MAO sample size was 1,000. Effective 2007, the MAO sample size was increased to 1,200.
Cost Plan	A plan operated by a Health Maintenance Organization (HMO) or Competitive Medical Plan in accordance with a cost reimbursement contract under §1876(h) of the Act. In the Star Ratings, CMS classifies a Cost Plan not offering Part D as MA-Only and a Cost Plan offering Part D as MA-PD.
Disability Status	Based on the original reason for entitlement for Medicare.
Dual eligible	are individuals who are entitled to Medicare Part A and/or Part B and are eligible for some form of Medicaid benefit.
Euclidean distance	The absolute value of the difference between two points, x-y.
HEDIS	The Healthcare Effectiveness Data and Information Set (HEDIS) is a widely used set of performance measures in the managed care industry, developed and maintained by the National Committee for Quality Assurance (NCQA).

HOS	The Medicare Health Outcomes Survey (HOS) is the first patient reported outcomes measure used in Medicare managed care. The goal of the Medicare HOS program is to gather valid, reliable, and clinically meaningful health status data in the Medicare Advantage (MA) program for use in quality improvement activities, pay for performance, program oversight, public reporting, and improving health. All managed care organizations with MA contracts must participate.
ICEP	The 3 months immediately before beneficiaries are entitled to Medicare Part A and enrolled in Part B are known as the Initial Coverage Election Period (ICEP). Beneficiaries may choose a Medicare health plan during their ICEP and the plan must accept them unless it has reached its limit in the number of members. This limit is approved by CMS.
IRE	The Independent Review Entity (IRE) is an independent entity contracted by CMS to review Medicare health and drug plans' adverse reconsiderations of organization determinations.
IVR	Interactive voice response (IVR) is a technology that allows a computer to interact with humans through the use of voice and dual-tone multi-frequency keypad inputs.
LIS	The Low Income Subsidy (LIS) from Medicare provides financial assistance for beneficiaries who have limited income and resources. Those who receive the LIS get help paying for their monthly premium, yearly deductible, prescription coinsurance, and copayments and they will have no gap in coverage.
LIS/DE	Beneficiaries who qualify at any point in the year for a low income subsidy through the application process and/or who are full or partial Dual (Medicare and Medicaid) beneficiaries.
MA	A Medicare Advantage (MA) organization is a public or private entity organized and licensed by a State as a risk-bearing entity (with the exception of provider-sponsored organizations receiving waivers) that is certified by CMS as meeting the MA contract requirements.
MA-Only	An MA organization that does not offer Medicare prescription drug coverage.
MA-PD	An MA organization that offers Medicare prescription drug coverage and Part A and Part B benefits in one plan.
MSA	Medicare Medical Savings Account (MSA) plans combine a high deductible MA plan and a medical savings account (which is an account established for the purpose of paying the qualified medical expenses of the account holder).
Percentage	A part of a whole expressed in hundredths. For example, a score of 45 out of 100 possible points is the same as 45%.
Percentile	The value below which a certain percent of observations fall. For example, a score equal to or greater than 97 percent of other scores attained on the same measure is said to be in the 97th percentile.
PDP	A Prescription Drug Plan (PDP) is a stand-alone drug plan, offered by insurers and other private companies to beneficiaries who receive their Medicare Part A and/or B benefits either through the Original Medicare Plan, Medicare Private Fee-for-Service Plans that do not offer prescription drug coverage, or Medicare Cost Plans that do not offer Medicare prescription drug coverage.

PFFS	Private Fee-for-Service (PFFS) is defined as an MA plan that pays providers of services at a rate determined by the plan on a fee-for-service basis without placing the provider at financial risk; does not vary the rates for a provider based on the utilization of that provider's services; and does not restrict enrollees' choices among providers who are lawfully authorized to provide services and agree to accept the plan's terms and conditions of payment. The Medicare Improvements for Patients and Providers Act (MIPPA) added that although payment rates cannot vary based solely on utilization of services by a provider, a PFFS plan is permitted to vary the payment rates for a provider based on the specialty of the provider, the location of the provider, or other factors related to the provider that are not related to utilization. Furthermore, MIPPA also allows PFFS plans to increase payment rates to a provider based on increased utilization of specified preventive or screening services. See section 30.4 of the Medicare Managed Care Manual Chapter 1 for further details on PFFS plans.
Reliability	A measure of the fraction of the variation among the observed measure values that is due to real differences in quality ("signal") rather than random variation ("noise"). On a scale from 0 (all differences among plans are due to randomness of sampling) to 1 (every plan's quality is measured with perfect accuracy).
SNP	A Special Needs Plan (SNP) is an MA coordinated care benefit package that limits enrollment to special needs individuals, i.e., those who are dual-eligible, institutionalized, or have one or more severe or disabling chronic conditions.
Sponsor	An entity that sponsors a health or drug plan.
Statistical Significance	Statistical significance assesses how likely differences observed are due to chance when plans are actually the same. CMS uses statistical tests (e.g., t-test) to determine if a contract's measure value is statistically significantly greater or less than the national average for that measure, or whether conversely the observed differences from the national average could have arisen by chance.
Sum of Squares	Method used to measure variation or deviation from the mean.
TTY	A teletypewriter (TTY) is an electronic device for text communication via a telephone line, used when one or more of the parties has hearing or speech difficulties.
Very Low Reliability	For CAHPS, an indication that reliability is less than 0.6, indicating that 40% or more of observed variation is due to random noise.

Attachment R: Health Plan Management System Module Reference

This attachment is designed to assist reviewers of the data displayed in HPMS (<https://hpms.cms.gov>) to understand the various pages and fields shown in the HPMS Star Ratings module. This module employs standard HPMS user access rights so that users can only see contracts associated with their user id.

HPMS Star Ratings Module

The HPMS Star Ratings module contains the Part C & Part D data and stars for all contracts that were rated in the ratings year along with much of the detailed data that went into the various calculations. To access the Star Ratings module you must be logged into HPMS. If you do not have access to HPMS, information on how to obtain access can be found here: <https://www.cms.gov/Research-Statistics-Data-and-Systems/Computer-Data-and-Systems/HPMS/Overview.html>

Once you are logged into HPMS, from the home page, select *Performance Metrics* from the *Quality and Performance* menu; the Performance Metrics page will be displayed. If you do not see *Performance Metrics*, your user id does not have the correct access permissions, please contact CMSHPMS_Access@cms.hhs.gov

From the Performance Metrics page; select *Star Ratings and Display Measures* from the left side menu. The *Star Ratings and Display Measures* home page will be displayed.

On the *Star Ratings and Display Measures* home page, select *Star Ratings* from the left hand menu. You will be presented with a screen that allows you to select a reporting period. The remainder of this attachment describes the HPMS pages available for the 2018 Star Ratings.

1. Measure Data page

The Measure Data page displays the numeric data for all Part C and Part D measures. This page is available during the first plan preview.

The first four columns contain contract identifying information. The remaining columns contain the measures which will display in MPF. There is one column for each of the Part C and Part D measures. The measure columns are identified by measure id and measure name. The row immediately above this measure information contains the domain name. The row immediately below the measure information contains the data time frame of the measure. All subsequent rows contain the data for all individual contracts associated with the user's login id. Table R-1 below shows a sample of the left hand most columns shown in HPMS.

Table R-1: Measure Data page sample

Medicare Star Ratings Report Card Master Table						
Contract Number	Organization Marketing Name	Contract Name	Parent Organization	HD1: Staying Healthy: Screenings, Tests and Vaccines		
				C01: Breast Cancer Screening	C02: Colorectal Cancer Screening	C03: Annual Flu Vaccine
				01/01/2016 - 12/31/2016	01/01/2016 - 12/31/2016	02/15/2017 - 05/31/2017
HAAAA	Market A	Contract A	PO A	Plan too new to be measured	Plan too new to be measured	Not enough data available
HBBBB	Market B	Contract B	PO B	Not enough data available	73%	81%
HCCCC	Market C	Contract C	PO C	63%	71%	80%

2. Measure Detail page

The Measure Detail page contains the underlying data used for the Part C and Part D Complaints (C28/D04) and Part C & D Appeals measures (C32, C33, D02, & D03). This page is available during the first plan preview. Table R-2 below explains each of the columns displayed on this page.

Table R-2: Measure Detail page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Total Number of Complaints	Number of non-excluded complaints for the contract
Complaint Average Enrollment	The average enrollment used in the final calculation
Complaints < 800 Enrolled	Yes / No, Yes = average enrollment < 800, No = average enrollment ≥ 800
Part C Total Appeals Cases	Total number of Part C appeals cases processed by the IRE (Maximus)
Part C Appeals Upheld	Number of Part C appeals which were upheld
Part C Appeals Overturned	Number of Part C appeals which were overturned
Part C Appeals Partly Overturned	Number of Part C appeals which were partially overturned
Part C Appeals Dismissed	Number of Part C appeals which were dismissed
Part C Appeals Withdrawn	Number of Part C appeals which were withdrawn
Part C Late Appeals	Number of Part C appeals which Maximus considered to be late
Part C Percent of Timely Appeals	Percent of Part C appeals which were processed in a timely manner
Part D Auto-Forward Cases	Number of Part D appeals not processed in a timely manner and subsequently auto-forwarded to the IRE (Maximus)
Part D 2016 enrollment	Average Part D 2016 monthly enrollment
Part D Appeals Upheld Cases	Total number of Part D appeals cases which were upheld
Part D Upheld Cases	Number of Part D appeals cases which were upheld
Part D Upheld: Fully Reversed	Number of Part D appeals cases which were reversed
Part D Upheld: Partially Reversed	Number of Part D appeals cases which were partially reversed

3. Measure Detail – Part C Appeals page

The Measure Detail – Part C Appeals page contains the case-level data of the non-excluded cases used in producing the Part C Appeals measures Plan Makes Timely Decisions about Appeals (C32) and Reviewing Appeals Decisions (C33). The data displayed on this page reflect the state of the appeals case at the time the data were pulled for use in the 2018 Star Ratings. This page is available during the first plan preview. Table R-2 below explains each of the columns displayed on this page.

Table R-3: Measure Detail – Part C Appeals page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Appeal Number	The case ID assigned to the appeal request
Appeal Priority	The priority of the appeal (Std Pre-Service, Exp Pre-Service, or Retro)
Status	The status of the appeal (Closed, Decided, Pending, Promoted, Remanded, Reopened, Requested)
Date Appeal Filed	The Date the Plan Reconsideration was requested, as reported by the Part C Plan
Corrected Appeal Date	The Date Appeal Filed, as determined by the IRE/QIC
Date File Received (QIC)	The Date the IRE/QIC received the Appeal from the Part C Plan
Level 1 Extension	Indicates if the contract took an extension during their processing of the reconsideration, as reported by the contract
Adjusted Plan Interval	The number of days between the Date Appeal Filed (or Corrected Appeal Date, if applicable) and the Date File Received (QIC) adjusted based on the Appeal Priority (Std Pre-Service, Exp Pre-Service, or Retro) and adjusted to account for 5 mailing days
Appeal Decision	Decision associated with the appeal (Dismiss Appeal, Overturn MCO Denial, Partly Overturn MCO Denial, Unspecified, Uphold MCO Denial, Withdraw Appeal)
Late Indicator	Indicates if the appeal case was considered late or not (0=Not Late, 1=Late)

4. Measure Detail – Auto-Forward page

The Measure Detail – Auto-Forward page contains the case-level data of the non-excluded cases used in producing the Part D Appeals Auto-Forward measure (D02). This page is available during the first plan preview. Table R-4 below explains each of the columns displayed on this page.

Table R-4: Measure Detail – Auto-Forward page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Appeal Number	The case ID assigned to the appeal request
Request Received Date	The date the appeal was received by the IRE
Request Type	The type of appeal (auto-forward)
Appeal Priority	The priority of the appeal (standard or expedited)
Appeal Disposition	The disposition of the IRE (Maximus)
Appeal End Date	The end date of the appeal

5. Measure Detail – Upheld page

The Measure Detail – Upheld page contains the case-level data of the non-excluded cases used in producing the Part D Appeals Upheld measure (D03). This page is available during the first plan preview. Table R-5 below explains each of the columns displayed on this page.

Table R-5: Measure Detail – Upheld page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Appeal Number	The case ID assigned to the appeal request
Request Received Date	The date the appeal was received by the IRE
Deadline	The deadline for the decision
Appeal Priority	The priority of the appeal (standard or expedited)
Appeal Disposition	The disposition of the IRE (Maximus)
Appeal End Date	The end date of the appeal
Status	The status of the appeal

6. Measure Detail – SNP CM page

The Measure Detail – SNP CM page contains the underlying data used in calculating the Part C SNP Care Management measure (C08). The formulas used to calculate the SNP CM measure are detailed in [Attachment E](#). This page is available during the first plan preview. Table R-6 below explains each of the columns displayed on this page.

Table R-6: Measure Detail – SNP CM page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Number of new enrollees	Number of new SNP enrollees eligible for an initial assessment (Element 13.1)
Number of enrollees eligible for an annual HRA	Number of SNP enrollees eligible for an annual reassessment (Element 13.2)
Number of initial HRAs performed on new enrollees	Number of initial assessments performed on new SNP enrollees (Element 13.3)
Number of annual reassessments performed	Number of annual reassessments performed on eligible SNP enrollees (Element 13.6)
Total Number of SNP Enrollees Eligible	Final measure numerator (Elements 13.1 + 13.2)
Total Number of Assessments Performed	Final measure denominator (Elements 13.3 + 13.6)
Percent of Eligible SNP Enrollees Receiving an Assessment	Final measure score
Data Validation Score	The data validation score for the contract
Reason for Exclusion	Reason (if any) contract submitted data was not used to generate a score

7. Measure Detail – SNP COA page

The Measure Detail – SNP COA page contains the underlying data used in calculating the Part C HEDIS SNP Care for Older Adult measures (C09, C10 & C11). The formulas used to calculate these SNP measures are detailed in [Attachment E](#). This page is available during the first plan preview. Table R-7 below explains each of the columns displayed on this page.

Table R-7: Measure Detail – SNP COA page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
PBP ID	The Plan Benefit Package number associated with the data
Eligible Population – MR	The Eligible population - Medication Review, entered by the contract into NCQA IDSS (Field: eligpopmr)
Eligible Population – FSA	The Eligible population - Functional Status Assessment, entered by the contract into NCQA IDSS (Field: eligpopfsa)
Eligible Population – PA	The Eligible population - Pain Assessment, entered by the contract into NCQA IDSS (Field: eligpopps)
Average Plan Enrollment	The average enrollment in the PBP during 2014 (see section Contract Enrollment Data)
COA – MR Rate	The COA Medication Review Rate calculated by the NCQA data submission tool (Field: ratemr)
COA – FSA Rate	The COA Functional Status Assessment Rate calculated by the NCQA data submission tool (Field: ratefsa)
COA – PA Rate	The COA Pain Assessment Rate calculated by the NCQA data submission tool (Field: ratesps)
COA - MR Audit Designation	The audit designation for the COA Medication Review Rate (the audit codes defined next table)
COA – FSA Audit Designation	The audit designation for the COA Functional Status Assessment Rate (the audit codes defined next table)
COA – PA Audit Designation	The audit designation for the COA Pain Assessment Rate (the audit codes defined next table)

Table R-8: HEDIS 2017 Audit Designations and 2018 Star Ratings

Audit Designation	NCQA Description	Resultant Star Rating
R	Reportable	Assigned 1 to 5 stars depending on reported value
BR	Biased Rate	1 star, numeric data set to “CMS identified issues with this plan’s data”
NA	Small Denominator	“Not enough data available”
NB	No Benefit	“Benefit not offered by plan”
NR	Not Reported	1 star, numeric data set to “CMS identified issues with this plan’s data”
NQ	Not Required	“Plan not required to report measure” (applies only to 1876 Cost in the PCRB measure)
UN	Un-Audited	Not possible in Star Ratings measures which only use audited data

8. Measure Detail – CTM page

The Measure Detail – CTM page contains the case level data of the non-excluded cases used in producing the Part C & Part D Complaints measure (C28/D04). This page is available during the first plan preview.

Table R-9 below explains each of the columns displayed on this page.

Table R-9: Measure Detail – CTM page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Complaint ID	The case number associated with the complaint in the HPMS CTM module
Complaint Lead	The complaint lead code
CMS Issue	Is the complaint designated as a CMS issue? (Yes/No)
Category	The complaint category description of CMS or plan lead
Subcategory	The complaint subcategory description associated with this case
Subcategory - Other	The complaint additional subcategory description associated with this case
Contract Assignment / Reassignment Date	The date that complaints are assigned or re-assigned to contracts

9. Measure Detail – Disenrollment

The Measure Detail – Disenrollment page contains data that are used in calculating the Part C & Part D disenrollment measure (C29/D05). The page shows the denominator, unadjusted numerator and original rate received from the MBDSS annual report. It also contains the adjusted numerator and final rate after all members meeting the measure exclusion criteria described in the measure description have been removed. This page is available during the first plan preview. Table R-10 below explains each of the columns displayed on this page.

Table R-10: Measure Detail – Disenrollment page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Number Enrolled	The number of all members in the contract from MBDSS annual report
Number Disenrolled	The number disenrolled with a disenrollment reason code of 11, 13, 14 or 99, from the MBDSS annual report
Original Rate	The disenrollment rate as calculated by the annual MBDSS report
Adjusted Disenrolled	The adjusted numerator when all members who meet the measure exclusion criteria are removed
Adjusted Rate	The final adjusted disenrollment rate used in the Star Ratings
>1000 Enrolled	Flag indicates contract non-employer group enrollment >1,000 members during the year (True = Yes, False = No)

10. Measure Detail – DR (Disenrollment Reasons)

The Measure Detail – Disenrollment Reasons page contains the data from the Disenrollment Reasons Survey (DRS) which will be displayed in the Medicare Plan Finder when the user drills down under the Star Ratings Disenrollment measure. The Disenrollment Reasons data are not used at any point in the calculations of the Star Ratings. The Disenrollment Reasons data are provided in MPF for beneficiary information only and in HPMS with the Star Ratings data so organizations can preview them prior to being posted publicly. The data comes from surveys sent to enrollees who disenrolled between 1/1/2016 and 12/31/2016. This page is available during the first plan preview. Table R-11 below explains each of the columns displayed on this page.

Table R-11: Measure Detail – Disenrollment Reasons page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
DR PGNCCC	Disenrollment Reasons - Problems Getting Needed Care, Coverage, and Cost Information (MA-PD, MA-Only)
DR PCDH	Disenrollment Reasons - Problems with Coverage of Doctors and Hospitals (MA-PD, MA-Only)
DR FRD	Disenrollment Reasons - Financial Reasons for Disenrollment (MA-PD, MA-Only, PDP)
DR PPDBC	Disenrollment Reasons - Problems with Prescription Drug Benefits and Coverage (MA-PD, PDP)
DR PGIPD	Disenrollment Reasons - Problems Getting Information about Prescription Drugs (MA-PD, PDP)

11. Measure Detail – BAPP (Beneficiary Access and Performance Problems)

The Measure Detail – BAPP (Beneficiary Access and Performance Problems) page contains data that are used in calculating the Part C & Part D measure (C30/D06). Information on contract Sanctions and Civil Money Penalties that occurred during the data timeframe can be viewed on this page: [Part C and Part D Enforcement Actions](#). Information about the Ad-hoc CAPs that occurred during the data timeframe can be downloaded from this page: [Part C and Part D Compliance Actions](#).

The notice and warning letter counts come from the Compliance Activity module (CAM) in HPMS. Contracts can view their own CAM data, from the home page, select Monitoring | Compliance Activity. If you cannot see the Plan Reporting Data Validation module, contact the HPMS access team CMSHPMS_Access@cms.hhs.gov. The CAM score and BAPP score calculation methodology is explained in the measure description section of these technical notes. This page is available during the first plan preview. Table R-12 below explains each of the columns displayed on this page.

Table R-12: Measure Detail – BAPP (Beneficiary Access and Performance Problems) page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Effective Date	The contract effective date
Contract Sanctioned	Was the contract under sanction during the data time frame (Yes/No)
Date Sanction Imposed	The date the sanction began (date sanction started if applicable, blank if not)
Date Sanction Lifted	The date the sanction ended (date sanction ended if applicable, blank if not)
CMP	The count of Civil Money Penalties imposed during the data time frame
NONC	The count of Notices of Non Compliance issued during the data time frame
WLwoBP	The count of Warning Letters without Business Plan issued during the data time frame
WLwBP	The count of Warning Letters with Business Plan issued during the data time frame
Ad-hoc CAPs	The count of Ad-hoc CAPs issued during the data time frame
CAP Severities	The severity of each individual Ad-hoc CAP issued during the data time frame
Total Severity	The total severity of all the Ad-hoc CAPs issued during the data time frame
CAM Score	The final calculated CAM score
BAPP Score	The final calculated measure score

12. Measure Detail – MTM page

The Measure Detail – MTM page contains each contract's underlying denominator and numerator after measure specifications have been applied to the plan-reported validated data to calculate the Part D MTM Program Completion Rate for CMR (D14). The formulas used to calculate the MTM measure are detailed in [Attachment N](#). This page is available during the first plan preview. Table R-13 below explains each of the columns displayed on this page.

Table R-13: Measure Detail – MTM page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Total Part D Enrollees	The number of Part D enrollees in the contract (average monthly HPMS enrollment)
Total MTM Enrollees, All	The number of Part D enrollees enrolled in the contract's MTM program (as reported in the Part D MTM plan-reported data). Includes beneficiaries that had an enrollment start date anytime in the measurement period, regardless of age, hospice status, or duration of MTM enrollment. Excludes records where the HICN could not be mapped to a valid beneficiary or where the beneficiary was reported with multiple, conflicting records in the same contract's data.
Total MTM Enrollees, Targeted	The number of Part D enrollees enrolled in the contract's MTM program that met the specified targeting criteria per CMS-Part D requirements pursuant to §423.153(d) of the regulations (as reported in the Part D MTM plan-reported data). Includes beneficiaries that had an enrollment start date anytime in the measurement period, regardless of age, hospice status, or duration of MTM enrollment. Excludes records where the HICN could not be mapped to a valid beneficiary or where the beneficiary was reported with multiple, conflicting records in the same contract's data.
Total MTM Enrollees, Targeted, Adjusted	The number of Part D enrollees enrolled in the contract's MTM program that met the specified targeting criteria per CMS-Part D requirements pursuant to §423.153(d) of the regulations (as reported in the Part D plan-reported data) after measure specifications applied as detailed in Attachment N. (Measure Denominator)
Total MTM Enrollees, Targeted, Adjusted, Who Received a CMR	The number of beneficiaries from the denominator who received a CMR. (Measure Numerator)
MTM Program Completion Rate for CMR	The percent of MTM program enrollees who received a CMR. (Measure Numerator)/(Measure Denominator)
MTM Section Data Validation Score	Contract's score in data validation (DV) for their MTM Program Reporting Requirements data
Reason(s) for Display Message	Reason(s) for display message assignment (if applicable)

13. Measure Detail – CAHPS page

The Measure Detail – CAHPS page contains the underlying data used in calculating the Part C & D CAHPS measures: Annual Flu Vaccine (C03), Getting Needed Care (C22), Getting Appointments and Care Quickly (C23), Customer Service (C24), Rating of Health Care Quality (C25), Rating of Health Plan (C26), Care Coordination (C27), Rating of Drug Plan (D08), and Getting Needed Prescription Drugs (D09). This page is available during the first plan preview. Table R-14 below explains each of the columns displayed on this page.

Table R-14: Measure Detail – CAHPS page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
CAHPS Measure	The CAHPS measure identifier followed by the Star Ratings measure id in parenthesis
Reliability	The contract-level reliability of the measure data
Statistical Significance	The statistical significance of the measure data (Below Average, No Difference, Above Average, Not Reported)
Use N	The number of usable surveys with responses to the item, or at least one item of a composite
Mean Score on Original Scale	The mean score on the original survey response scale
Variance of Mean on Original Scale	The sampling variance of contract mean ("Mean score") on the original scale
Standard Error on Original Scale	The standard error of the contract mean ("Mean score") on the original scale; square root of "variance"
Scaled Mean	The contract mean score rescaled to a 0-100 scale
Scaled SE	The standard error of the 0-100 scaled mean
Base Group	Categories determined by the percentile cutoffs from the distribution of mean scores
Star Rating	Determined by the percentile cutoffs, statistical significance of the difference of the contract mean from the overall mean, the statistical reliability of the estimate, and standard error of the mean score

14. Calculation Detail – CAI

The Calculation Detail – CAI page contains the enrollment data used to calculate the percentages for use in the Categorical Adjustment Index (CAI) to determine the Final Adjustment Categories for each of the summary and overall rating calculations. This page is available during the first plan preview. Table R-15 below explains the columns displayed on this page.

Table R-15: Measure Detail – CAI page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Puerto Rico Only	Does the contract's non-employer service area only cover Puerto Rico? Yes or No
Contract Type	The contract plan type used to compute the ratings
Part D Offered	Is Part D offered by the contract? Yes or No
Enrolled	The total number enrolled in the contract used to determine the % LIS/DE and % Disabled
# LIS/DE	The number of LIS/DE enrolled in the contract
# Disabled	The number of Disabled enrolled in the contract
% LIS/DE	The percent of LIS/DE in the contract
% Disabled	The percent Disabled in the contract
Part C LIS/DE Initial Group	The Part C LIS/DE initial group this contract is in
Part C Disabled Quintile	The Part C Disabled Quintile group this contract is in
Part C FAC	The Part C Final adjustment category this contract is in
Part C CAI Value	The CAI value that will be combined with the final Part C summary score prior to rounding to half stars
Part D MA-PD LIS/DE Initial Group	The Part D MA-PD LIS/DE initial group this contract is in
Part D MA-PD Disabled Quintile	The Part D MA-PD Disabled Quintile group this contract is in
Part D MA-PD FAC	The Part D MA-PD Final adjustment category this contract is in
Part D MA-PD CAI Value	The CAI value that will be combined with the final Part D MA-PD summary score prior to rounding to half stars
Part D PDP LIS/DE Quartile	The Part D PDP LIS/DE Quartile group this contract is in
Part D PDP Disabled Quartile	The Part D PDP Disabled Quartile group this contract is in
Part D PDP FAC	The Part D PDP Final adjustment category this contract is in
Part D PDP CAI Value	The CAI value that will be combined with the final Part D PDP summary score prior to rounding to half stars
Overall LIS/DE Initial Group	The overall LIS/DE initial group this contract is in
Overall Disabled Quintile	The overall disabled Quintile group this contract is in
Overall FAC	The overall final adjustment category this contract is in
Overall CAI Value	The CAI value that will be combined with the final overall score prior to rounding to half stars

15. Measure Detail – HEDIS LE page

The Measure Detail – HEDIS LE page contains the data used to calculate the reliability of the HEDIS measures (C01, C02, C07, C13 – C17, C20, & C21) data for contracts with ≥ 500 and $< 1,000$ members enrolled in July of the measurement year (July 01, 2016). This page is available during the second plan preview. Table R-16 below explains each of the columns displayed on this page.

Table R-16: Measure Detail – HEDIS LE page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The parent organization of the contract
Measure ID	The Star Ratings measure that the other data on this row is associated with
Rate	The submitted HEDIS rate
Score	The rounded value used for the measure in the Star Ratings
Enrollment	The contract enrollment for July 2016
Reliability	The computed reliability for the contract measure
Usable	The computed reliability ≥ 0.7 and rate is used = True, reliability < 0.7 and rate was not used = False

16. Measure Detail – C Improvement page

The Improvement page is constructed in a similar manner as the Measure Data page. This page is available during the second plan preview.

The first four columns contain contract identifying information. The remaining columns contain the results of the improvement calculation for the specific Part C measures. There is one column for each Part C measure. The measure columns are identified by measure id and measure name. There is an additional column to the right of the Part C measure columns which contain the final numeric Part C improvement score. This numeric result from step 4 is described in [Attachment I](#): “Calculating the Improvement Measure and the Measures Used.”

The row immediately above this measure information contains the domain id and domain name. The row immediately below the measure information contains a flag (Included or Not Included) to show if the measure was used to calculate the final improvement measure. All subsequent rows contain the data associated with an individual contract. The possible results for Part C measure calculations are shown in Table R-17 below.

Table R-17: Part C Measure Improvement Results

Improvement Measure Result	Description
No significant change	There was no significant change in the values between the two years
Significant improvement	There was a significant improvement from last year to this year
Significant decline	There was a significant decline from last year to this year
Not included in calculation	There was only one year of data available so the calculation could not be completed
Not Applicable	The measure is not an improvement measure
Not Eligible	The contract did not have data in more than half of the improvement measures or was too new
Held Harmless	The contract had 5 stars in this measure last year and this year
Low reliability and low enrollment	The low-enrollment contract measure score did not have sufficiently high reliability

17. Measure Detail – D Improvement page

The Improvement page is constructed in a similar manner as the Measure Data page. This page is available during the second plan preview.

The first four columns contain contract identifying information. The remaining columns contain the results of the improvement calculation for the specific Part D measures. There is one column for each Part D measure. The measure columns are identified by measure id and measure name. There is an additional column to the right of the Part D measure columns which contain the final numeric Part D improvement score. This numeric result from step 4 is described in [Attachment I](#): “Calculating the Improvement Measure and the Measures Used.”

The row immediately above this measure information contains the domain id and domain name. The row immediately below the measure information contains a flag (Included or Not Included) to show if the measure was used to calculate the final improvement measure. All subsequent rows contain the data associated with an individual contract. The possible results for Part D measure calculations are shown in Table R-18 below.

Table R-18: Part D Measure Improvement Results

Improvement Measure Result	Description
No significant change	There was no significant change in the values between the two years
Significant improvement	There was a significant improvement from last year to this year
Significant decline	There was a significant decline from last year to this year
Not included in calculation	There was only one year of data available so the calculation could not be completed
Not Applicable	The measure is not an improvement measure
Not Eligible	The contract did not have data in more than half of the improvement measures or was too new
Held Harmless	The contract had 5 stars in this measure last year and this year

18. Measure Stars page

The Measure Stars page displays the Star Rating for each Part C and Part D measure. This page is available during the second plan preview.

The first four columns contain contract identifying information. The remaining columns contain the measure stars which will display in MPF. There is one column for each of the Part C and Part D measures. The measure columns are identified by measure id and measure name. The row immediately above this measure information contains the domain id and domain name. The row immediately below the measure information contains the data time frame. All subsequent rows contain the data for all individual contracts associated with the user's login id. Table R-19 below shows a sample of the left hand most columns shown in HPMS.

Table R-19: Measure Star page sample

Medicare Star Ratings Report Card Master Table						
Contract Number	Organization Marketing Name	Contract Name	Parent Organization	HD1: Staying Healthy: Screenings, Tests and Vaccines		
				C01: Breast Cancer Screening	C02: Colorectal Cancer Screening	C03: Annual Flu Vaccine
				01/01/2016 - 12/31/2016	01/01/2016 - 12/31/2016	02/15/2017 - 05/31/2017
HAAAA	Market A	Contract A	PO A	Plan too new to be measured	Plan too new to be measured	Not enough data available
HBBBB	Market B	Contract B	PO B	Not enough data available	4	5
HCCCC	Market C	Contract C	PO C	3	4	5

19. Domain Stars page

The Domain Stars page displays the Star Rating for each Part C and Part D domain. This page is available during the second plan preview.

The first four columns contain contract identifying information. The remaining columns contain the domain stars which will display in MPF. There is one column for each of the Part C and Part D domains. The domain columns are identified by the domain id and domain name. All subsequent rows contain the stars associated with an individual contract. Table R-20 below shows a sample of the left hand most columns shown in HPMS.

Table R-20: Domain Star page sample

Medicare Star Ratings Report Card Master Table						
Contract Number	Organization Marketing Name	Contract Name	Parent Organization	HD1: Staying Healthy: Screenings, Tests and Vaccines	HD2: Managing Chronic (Long Term) Conditions	HD3: Member Experience with Health Plan
HAAAA	Market A	Contract A	PO A	4	3	4
HBBBB	Market B	Contract B	PO B	3	3	3
HCCCC	Market C	Contract C	PO C	3	3	4

20. Part C Summary Rating page

The Part C Summary Rating page displays the Part C rating and data associated with calculating the final Part C summary rating. This page is available during the second plan preview. Table R-21 below explains each of the columns contained on this page.

Table R-21: Part C Summary Rating page fields

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Contract Type	The contract plan type used to compute the ratings
SNP Plans	Does the contract offer a SNP? (Yes/No)
Number Measures Required	The minimum number of measures required to calculate a rating out all required for the contract type.
Number Missing Measures	The number of measures that were missing stars
Number Rated Measures	The number of measures that were assigned stars
Calculated Summary Mean	Contains the mean of the stars for rated measures
Calculated Variance	The variance of the calculated summary mean
Variance Category	The reward factor variance category for the contract (low, medium, or high)
Reward Factor	The calculated reward factor for the contract (0, 0.1, 0.2, 0.3, or 0.4)
Interim Summary	The sum of the Calculated Summary Mean and the Reward Factor
Part C Summary FAC	Part C summary final adjustment category for the contract
CAI Value	The Part C summary CAI value for the contract
Final Summary	The sum of the Interim Summary and the CAI Value
Improvement Measure Usage	Did the final Part C summary rating come from the calculation using the improvement measure (C31)? (Yes/No)
2018 Part C Summary Rating	The final rounded 2018 Part C Summary Rating
Calculated Score Percentile Rank	Percentile ranking of Calculated Summary Mean
Variance Percentile Rank	Percentile ranking of Calculated Variance

21. Part D Summary Rating page

The Part D Summary Rating page displays the Part D rating and data associated with calculating the final Part D summary rating. This page is available during the second plan preview. Table R-22 below explains each of the columns contained on this page.

Table R-22: Part D Summary Rating View

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Contract Type	The contract plan type used to compute the ratings
Number Measures Required	The minimum number of measures required to calculate a rating out all required for the contract type
Number Missing Measures	The number of measures that were missing stars
Number Rated Measures	The number of measures that were assigned stars
Calculated Summary Mean	Contains the mean of the stars for rated measures
Calculated Variance	The variance of the calculated summary mean
Variance Category	The reward factor variance category for the contract (low, medium, or high)
Reward Factor	The calculated reward factor for the contract (0, 0.1, 0.2, 0.3, or 0.4)
Interim Summary	The sum of the Calculated Summary Mean and the Reward Factor
Part D Summary FAC	Part D summary final adjustment category for the contract
CAI Value	The Part D summary CAI value for the contract
Final Summary	The sum of the Interim Summary and the CAI Value
Improvement Measure Usage	Did the final Part D summary rating come from the calculation using the improvement measure (D07)? (Yes/No)
2018 Part D Summary Rating	The final rounded 2018 Part D Summary Rating
Calculated Score Percentile Rank	Percentile ranking of Calculated Summary Mean
Variance Percentile Rank	Percentile ranking of Calculated Variance

22. Overall Rating page

The Overall Rating page displays the overall rating for MA-PD contracts and data associated with calculating the final overall rating. This page is available during the second plan preview. Table R-23 below explains each of the columns contained on this page.

Table R-23: Overall Rating View

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Contract Type	The contract plan type used to compute the ratings
SNP Plans	Does the contract offer a SNP? (Yes/No)
Number Measures Required	The minimum number of measures required to calculate a rating out all required for the contract type
Number Missing Measures	The number of measures that were missing stars
Number Rated Measures	The number of measures that were assigned stars
2018 Part C Summary Rating	The 2018 Part C Summary Rating
2018 Part D Summary Rating	The 2018 Part D Summary Rating
Calculated Summary Mean	Contains the weighted mean of the stars for rated measures
Calculated Variance	The variance of the calculated summary mean
Variance Category	The reward factor variance category for the contract (low, medium, or high)
Reward Factor	The calculated reward factor for the contract (0, 0.1, 0.2, 0.3, or 0.4)
Interim Summary	The sum of the Calculated Summary Mean and the Reward Factor
Overall FAC	Overall final adjustment category for the contract
CAI Value	The Overall CAI value for the contract
Final Summary	The sum of the Interim Summary and the CAI Value
Improvement Measure Usage	Did the final overall rating come from the calculation using the improvement measures (C29 & D07)? (Yes/No)
2018 Overall Rating	The final 2018 Overall Rating
Calculated Score Percentile Rank	Percentile ranking of Calculated Summary Mean
Variance Percentile Rank	Percentile ranking of Calculated Variance

23. Low Performing Contract List

The Low Performing Contract List page displays the contracts that received a Low Performing Icon and the data used to calculate the assignment. This page is available during the second plan preview. HPMS users in contracting organizations will see only their own contracts in this list. None will be displayed if no contract in the organization was assigned a Low Performing Icon. Table R-24 below explains each of the columns contained on this page.

Table R-24: Low Performing Contract List

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Rated As	The type of rating for this contract, valid values are "MA-Only," "MA-PD," and "PDP"
2016 C Summary	The 2016 Part C Summary Rating earned by the contract
2016 D Summary	The 2016 Part D Summary Rating earned by the contract
2017 C Summary	The 2017 Part C Summary Rating earned by the contract
2017 D Summary	The 2017 Part D Summary Rating earned by the contract
2018 C Summary	The 2018 Part C Summary Rating earned by the contract
2018 D Summary	The 2018 Part D Summary Rating earned by the contract
Reason for LPI	The combination of ratings that met the Low Performing Icon rules. Valid values are "Part C," "Part D," "Part C and D," & "Part C or D." See the section titled "Methodology for Calculating the Low Performing Icon" for details.

24. High Performing Contract List

The High Performing Contract List page displays the contracts that received a High Performing Icon. This page is available during the second plan preview. HPMS users in contracting organizations will see only their own contracts in this list. None will be displayed if no contract in the organization was assigned a High Performing Icon. Table R-25 below explains each of the columns contained on this page.

Table R-25: High Performing Contract List

HPMS Field Label	Field Description
Contract Number	The contract number associated with the data
Organization Marketing Name	The name the contract markets to members
Contract Name	The name the contract is known by in HPMS
Parent Organization	The name of the parent organization for the contract
Rated As	The type of rating for this contract, valid values are "MA-Only," "MA-PD," and "PDP"
Highest Rating	The highest level of rating that can be achieved for this organization, valid values are "Part C Summary," "Part D Summary," "Overall Rating"
Rating	The star value attained in the highest rating for the organization type

25. Technical Notes link

The Technical Notes link provides the user with a copy of the 2018 Star Ratings Technical Notes. A draft version of these technical notes is available during the first plan preview. The draft is then updated for the second plan preview, and then finalized when the ratings data have been posted to MPF. Other updates may occur to the technical if errors are identified outside of the plan preview periods and after MPF data release.

Left clicking on the Technical Notes link will open a new browser window which will display a PDF (portable document format) copy of the 2018 Star Ratings Technical Notes. Right clicking on the Technical Notes link will pop up a context menu which contains Save Target As...; clicking on this will allow the user to download and save a copy of the PDF document

26. Medication NDC List – Medication Adherence Measure link

The Medication NDC List – Medication Adherence Measure link provides the user a means to download a copy of the medication lists used for the Medication Adherence measures (D12, D13, & D14). This downloadable file is in Excel format.