

Appendix A: Monitoring Commitments and Data Sources Outlined in the CMS Contract

| Measurement | Data Files | Source Agency | Monitoring Timeline | Reporting Timeline | CY Data Availability |
|--|---|----------------------|---|-----------------------|----------------------|
| Performance Target Data | | | | | |
| All-Payer per Capita Test | HSCRC Financial Database | HSCRC | Monthly, 45 days after the end of the month | May 1st | March 1st |
| | Population Projections and Estimates | MD Dept. of Planning | Annual, December | May 1st | December 31st |
| Medicare per Beneficiary Hospital Payments | National and Maryland Medicare Part-A Claims | CMS | Monthly, with 4 month lag | May 1st | May 1st |
| | Beneficiary Enrollment Data | CMS | Monthly, with 4 month lag | May 1st | May 1st |
| Readmissions | National and Maryland Medicare Claims | CMS | Monthly, with 4 month lag | June 30th | May 1st |
| Potentially Preventable Complications | HSCRC Case mix Database | HSCRC | Monthly, with 2 month lag | June 30th | March 1st |
| Guardrails Data | | | | | |
| Medicare per Beneficiary Total Payments | National and Maryland Medicare Part A and Part B Claims | CMS | Monthly, with 4 month lag | May 1st | May 1st |
| | Beneficiary Enrollment Data | CMS | | | |
| Percent of Revenue from Out of State Patients in Maryland (Medicare and All-Payer) | Medicare Claims Data | CMS | Monthly, with 4 month lag | May 1st | May 1st |
| | HSCRC Financial Database | HSCRC | | | |
| Compliance Data | | | | | |
| Shared Savings Amounts from Medicare Programs for Maryland Hospitals (from ACO's, bundled payments, etc, paid outside of claims) | To be developed | HSCRC | At Least Annually | 60 days after receipt | TBD |
| All-Payer Total Cost and Shifts to unregulated space | See Appendix B "Rec Data Source for Gaps" | | | TBD | Fall |

Appendix A: Monitoring Commitments and Data Sources Outlined in the CMS Contract, cont.

| Measurement | Data Files | Source Agency | Monitoring Timeline | Reporting Timeline | CY Data Availability |
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| Monitoring Data | | | | | |
| PATIENT EXPERIENCE OF CARE MEASURES | | | | | |
| HCAHPS: Patient’s rating of the hospital HCAHPS: Communication with doctors HCAHPS: Communication with nurses HCAHPS : Three-item care transition measure (CTM-3) | Survey | CMS | Annual | June 30th | October |
| Home Health CAHPS: Patient’s rating of home health agency Home Health CAHPS: Communication with the home health team | Survey | CMS | Annual | June 30th | October |
| Nursing Home CAHPS (State-administered survey based on) : Family members’ perceptions of nursing home care | Survey | CMS | Annual | June 30th | Summer |
| Clinician and Group CAHPS: Patient’s perceptions of care provided by a physician in an office. | Survey | CMS | Annual | June 30th | TBD |
| Short Stay Nursing Home Resident’s discharge needs met Short Stay Nursing Home Resident’s Discharge planning and information about medicines and symptoms | Survey | MHCC | Annual | June 30th | Summer |
| Rate of physician follow up after discharge | Claims - Medicare, Medicaid, MCDB | CMS, DHMH, MHCC | Annual | June 30th | TBD |
| Discharges with PCP identified (Recommended Modification to the measure) | See Appendix B "Rec Data Source for Gaps" | | | June 30th | Fall |
| Medicaid participating physicians per Medicaid enrollee; | See Appendix B "Rec Data Source for Gaps" | | | June 30th | Fall |
| Medicare participating physicians per Medicare enrollee | See Appendix B "Rec Data Source for Gaps" | | | June 30th | Fall |

Appendix A: Monitoring Commitments and Data Sources Outlined in the CMS Contract, cont.

| Measurement | Data Files | Source Agency | Monitoring Timeline | Reporting Timeline | CY Data Availability |
|---|---|-------------------------------|---------------------|--------------------|----------------------|
| Monitoring Data | | | | | |
| PATIENT EXPERIENCE OF CARE MEASURES, Cont. | | | | | |
| Participation of providers in patient centered medical home models | See Appendix B "Rec Data Source for Gaps" | | | June 30th | Fall |
| Participation of providers in ACOs and bundled payments | See Appendix B "Rec Data Source for Gaps" | | | June 30th | Fall |
| Quality score using process of care measures in AMI, HF, SCIP, PN, CAC | Hospital Inpatient Quality Reporting Program | CMS | Annual | June 30th | October |
| Quality score using process of care measures in outpatient setting | Hospital Outpatient Quality Reporting Program | CMS | Annual | June 30th | October |
| NHSN CLASBI SIR | Hospital Compare | CMS | Annual | June 30th | TBD |
| Admission Rates from Home Health Agencies to Acute Inpatient Hospital | | | | June 30th | October |
| Unplanned, urgent visits to the Emergency Departments for patients receiving Home Health care | Home Health Compare | CMS | Annual | June 30th | October |
| Readmission rates from nursing home to acute care hospital (Readmission rate for Hospital Discharges to Nursing Homes) | Hospital Inpatient Discharge Abstract | HSCRC | Annual | June 30th | March 1st |
| Readmissions per 1000 residents | HSCRC Case Mix Database Population Estimates | HSCRC MD Dept. of Planning | Annual | June 30th | March 1st |
| Condition-Specific Hospital Readmissions Rates: | | | | | |
| <ul style="list-style-type: none"> Heart Failure Pneumonia Acute Myocardial Infarction Chronic Obstructive Pulmonary Disease Hip/Total Knee Arthroplasty | Hospital Inpatient Discharge Abstract | HSCRC | Annual | June 30th | March 1st |

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| Measurement | Data Files | Source Agency | Monitoring Timeline | Reporting Timeline | CY Data Availability |
|--|---|---------------------------------|---------------------|--------------------|----------------------|
| Monitoring Data | | | | | |
| POPULATION HEALTH MEASURES | | | | June 30th | |
| SHIP Objective 1*: Increase life expectancy | Vital Statistics Data | DHMH | Annual | June 30th | July |
| Prevention Quality Indicator (PQI) Composite Measure of Preventable Hospitalization | HSCRC Case Mix Database | DHMH | Annual | June 30th | July |
| SHIP Objective 32: Reduce the % of adults who are current smokers | Behavioral Risk Factor Surveillance System (BRFSS) | DHMH | Annual | June 30th | March |
| SHIP Objective 33: Reduce the % of youth using any kind of tobacco product | Maryland Youth Tobacco Survey | DHMH | Annual | June 30th | June |
| SHIP Objective 24: Increase the % vaccinated annually for seasonal influenza | CDC National Immunization Survey; BRFSS | DHMH | Annual | June 30th | March |
| SHIP Objective 23: Increase % of children with recommended vaccinations | CDC National Immunization Survey | DHMH | Annual | June 30th | September |
| SHIP Objective 20: Reduce new HIV infections among adults and adolescents | MD HIV surveillance system; US Census Bureau; ACS 5 year Census | DHMH | Annual | June 30th | March |
| SHIP Objective 27: Reduce diabetes-related emergency department visits | HSCRC Case Mix Database | DHMH | Annual | June 30th | July |
| SHIP Objective 28: Reduce hypertension related emergency department visits | HSCRC Case Mix Database | DHMH | Annual | June 30th | July |
| SHIP Objective 31: Reduce the % of children who are considered obese | Maryland Youth Tobacco Survey | DHMH | Annual | June 30th | June |
| SHIP Objective 30: Increase the % of adults who are at a healthy weight | Behavioral Risk Factor Surveillance System (BRFSS) | DHMH | Annual | June 30th | March |
| SHIP Objective 17: Reduce hospital ED visits from asthma | HSCRC Case Mix Database | DHMH | Annual | June 30th | July |
| SHIP Objective 34: Reduce hospital ED visits related to behavioral health | HSCRC Case Mix Database | DHMH | Annual | June 30th | July |
| Fall-related death rate | Mortality database | Maryland Vital Statistics Admin | Annual | June 30th | July |

Appendix A: Monitoring Commitments and Data Sources Outlined in the CMS Contract, cont.

| Measurement | Data Files | Source Agency | Monitoring Timeline | Reporting Timeline | CY Data Availability |
|--|---|---------------|---------------------|--------------------|----------------------|
| Monitoring Data | | | | | |
| HOSPITAL COST/EFFICIENCY MEASURES | | | | | |
| OP-8 : MRI Lumbar Spine for Low Back Pain | | | | | |
| OP-9: Mammography Follow-up Rates | | | | | |
| OP-10: Abdomen CT - Use of Contrast Material | | | | | |
| OP-11:Thorax CT - Use of Contrast Material | HSCRC Case Mix Database (OP-10, 11, and 14 only) or | | | | |
| OP-13: Cardiac Imaging for Preoperative Risk Assessment for Non Cardiac Low Risk Surgery | Medicare Claims (Hospital Compare); See Appendix B "Rec Data Source for Gaps" | CMS, MHCC | Annual | June 30th | July |
| OP-14: Simultaneous Use of Brain Computed Tomography (CT) and Sinus Computed Tomography (CT) | | | | | |
| Per capita hospital expenditure growth (inpatient and outpatient) for: | | | | | |
| <ul style="list-style-type: none"> All-payer Medicare Medicaid/CHIP Private payer Medicare/Medicaid Enrollees (Dual Eligible) | Hospital Inpatient and Outpatient Discharge Abstract; Insurance Enrollment Files | HSCRC | Annual | June 30th | March 1st |
| Per capita health expenditure growth (inpatient and outpatient) for: | | | | | |
| <ul style="list-style-type: none"> All-payer Medicare Medicaid/CHIP Private payer Medicare/Medicaid Enrollees (Dual Eligible) | See Appendix B "Rec Data Source for Gaps" | | TBD | June 30th | TBD |

Appendix B: Recommendations for Data Sources to Address Gaps Compliance Data

| Measurement | Recommended Data Files | Recommended Data Source Agency | Monitoring Timeline | Limitations & Considerations |
|--|--|---|---------------------|---|
| Compliance Data | | | | |
| All-Payer Total Cost and Shifts to unregulated space | Total Cost of Care Template | Medicaid and Commercial Payers | Annually | Considerations include: easy to submit on regular basis; clear definitions to ensure consistent reporting; build upon existing and well-documented models; and sufficiently disaggregated |
| Monitoring Data | | | | |
| PATIENT EXPERIENCE OF CARE MEASURES | | | | |
| Discharges with PCP identified | To be developed | CRISP | Annual | Measure is not exactly consistent with CMS requirement, there is a strong case to be made that this measure is a better indicator of supporting transitions in care and more consistent with meaningful use requirements. |
| Medicaid participating physicians per Medicaid enrollee; | HealthChoice directory of participating providers | DHMH Medicaid | Annual | Potential duplication of providers, or providers who are not actively seeing Medicaid patients or other inaccuracies |
| Medicare participating physicians per Medicare enrollee | Medicare.gov Physician Compare directory | CMS | Annual | Potential duplication in provider data and a lack of current information on whether providers are actively seeing Medicare beneficiaries or open for new patients |
| Participation of providers in patient centered medical home models | On-line directory of clinicians and sites that have received NCQA reorganization as a medical home | National Committee for Quality Assurance (NCQA) | Annual | Does not include providers participating in other medical home initiatives in Maryland (i.e., CareFirst Initiative) |

Appendix B: Recommendations for Data Sources to Address Gaps Compliance Data, cont.

| Measurement | Recommended Data Files | Recommended Data Source Agency | Monitoring Timeline | Limitations & Considerations |
|--|---|--|---------------------|---|
| Monitoring Data | | | | |
| PATIENT EXPERIENCE OF CARE MEASURES, cot. | | | | |
| Participation of providers in ACOs and bundled payments | Medicare- Funded: To be developed; Alternative Rate Methodology Statistics | CMS; HSCRC | Annual | CMS has not permitted Maryland hospitals to participate in bundled payment demonstrations; however, the agreement with CMS encourages Maryland to come forward with proposals under different CMMI initiatives. |
| HOSPITAL COST/EFFICIENCY MEASURES | | | | |
| OP-8 : MRI Lumbar Spine for Low Back Pain | | | | |
| OP-9: Mammography Follow-up Rates | Claims | | | |
| OP-10: Abdomen CT - Use of Contrast Material | (Hospital Compare); | | | |
| OP-11:Thorax CT - Use of Contrast Material | Other Payers | | | |
| OP-13: Cardiac Imaging for Preoperative Risk Assessment for Non Cardiac Low Risk Surgery | (OP-8, 9, and 13 To Be Developed) (OP-10, 11, and 14 HSCRC Case Mix Database) | CMS; HSCRC; MHCC | Annual | Medicare specific measures are published at Hospital Compare website. All-payer Measures for OP-10, 11, and 14 should be able to be calculated from outpatient hospital data only. The other three efficiency measures need to be developed using all-payer claims data base. |
| OP-14: Simultaneous Use of Brain Computed Tomography (CT) and Sinus Computed Tomography (CT) | | | | |
| Per capita health expenditure growth (inpatient and outpatient) for: | Total Cost of Care Template for All-Payer, Medicaid & Private Payers; Medicare Data for Medicare and Dual eligible | Medicaid, Commercial Payers and Medicare | Annual | Considerations: See Total Cost of Care template above |
| <ul style="list-style-type: none"> All-payer Medicare Medicaid/CHIP Private payer Medicare/Medicaid Enrollees (Dual Eligible) | | | | |

Appendix C: Draft Reporting Template for Total Cost of Care

| MD Providers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----|-------|--------|-------|--------|---------------------------|--------|-------|--------|---------------------|--------|---------|--------|--------|--------|-----------|--------|---------------------|--------|-------|--------|------------------|--------|----------------------|----|--------------|--------|-----|--------|
| Acute Hospital Inpatient | | | | | | Acute Hospital Outpatient | | | | | | | | | | | | Specialty Hospitals | | | | | | | | | | | |
| All Inpatient (except Psych& Rehab) | | Psych | | Rehab | | ER | | OP/PT | | Diagnostic/ Imaging | | Surgery | | Clinic | | All Other | | Psych | | Rehab | | Cancer Hospitals | | Children's Hospitals | | Chronic/ LTC | | | |
| Exp | Adm | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | NA | NA | Exp | Visits | Exp | Visits |

| Out of State Providers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----|-------|--------|-------|--------|---------------------------|--------|-------|--------|---------------------|--------|---------|--------|--------|--------|-----------|--------|---------------------|--------|-------|--------|------------------|--------|----------------------|--------|--------------|--------|-----|--------|
| Acute Hospital Inpatient | | | | | | Acute Hospital Outpatient | | | | | | | | | | | | Specialty Hospitals | | | | | | | | | | | |
| All Inpatient (except Psych& Rehab) | | Psych | | Rehab | | ER | | OP/PT | | Diagnostic/ Imaging | | Surgery | | Clinic | | All Other | | Psych | | Rehab | | Cancer Hospitals | | Children's Hospitals | | Chronic/ LTC | | | |
| Exp | Adm | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits |

| Ambulatory Care | | | | | | | | | | | | | | | | | | | | | | | | | | Enrollment | | | |
|-------------------------|--------|-------------|--------|---------------------|--------|---------|--------|-----------|--------|--------------------------|--------|-------------|--------|---------|--------|-------|--------|-----|--------|----------|--------|---------------|--------|-------------------|--------|------------|--------|---------------|--|
| Non-Hospital Outpatient | | | | Professional/Clinic | | | | | | Long-TermCare/Post Acute | | | | | | Other | | | | | | | | | | | | | |
| ASC | | Urgent Care | | PCP | | Non-PCP | | Therapies | | SNF | | Home Health | | Hospice | | HCBS | | Lab | | Pharmacy | | Imaging X-Ray | | All Other Medical | | | | | |
| Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Exp | Visits | Member Months | |

Exp = Expenses; Adm = Admissions

Reporting Levels

- Age Groups
- Enrollee County of Residents
- Market Segment