

Boston Medical Center HEALTH SYSTEM

Accountable Care Necessitates Health Information Exchange

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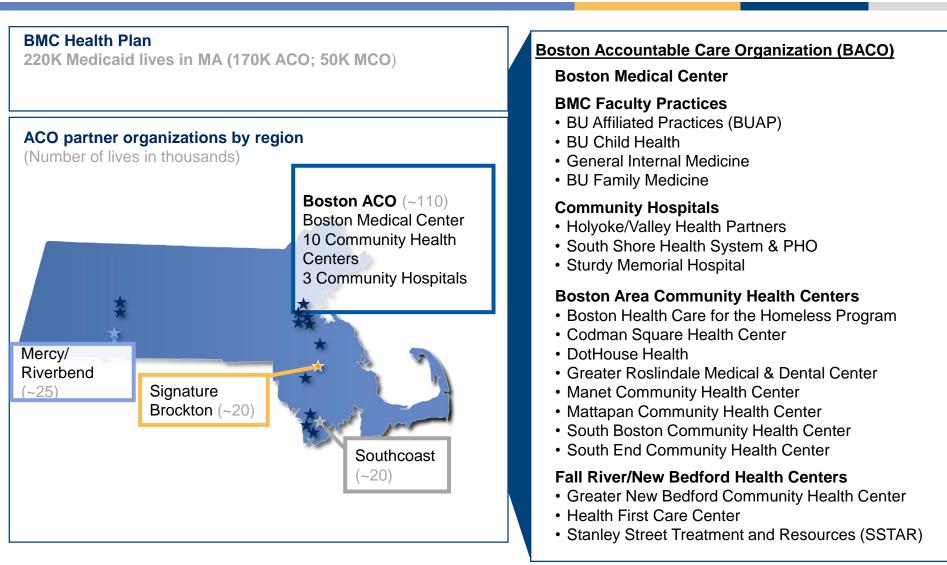
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Agenda

- Explain the BMC health system and priorities related to ACOs and value-based care
- Review need for health information exchange
- Demonstrate value of health information exchange
 - 1. Risk stratification
 - 2. Medical cost management and care coordination
 - 3. Risk coding
 - 4. Quality measure performance
- Future directions

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Boston Medical Center Health System: 4 Medicaid ACO Joint Ventures, encompassing BMC HealthNet Plan, 6 hospitals, and 18 Community Health Centers



There are four major levers to drive performance in the Medicaid ACO program

| Enrollment | Protects revenue: No revenue collected during periods of coverage lapses from redeterminations | |
|---|---|--|
| Quality | Determines ACO performance: Performance on Quality program determines clinical and financial performance of ACO | |
| Medical Expense Management & Care Coordination | Minimizes TCOC: ACOs share upside and downside risk. The primary lever is management of utilization as other medical expense levers are controlled (e.g. network pricing) | |
| Risk Coding/ Risk Adjustment - Massachusetts recognition of SDOH needs as dri outcomes and TCOC | | |

The shift to ACO has driven a heightened need for real-time information and analytics

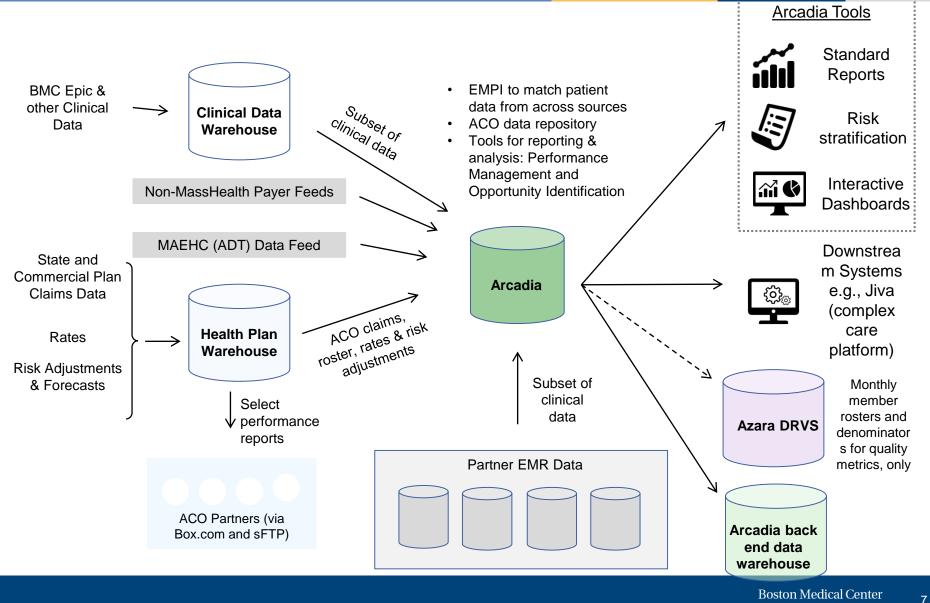
| Providers take financial risk – upside and downside Need to provide and interpret claims data and financial performance to numerous provider stakeholders Ability to drill down into performance drivers – both TCOC and revenue (rate adequacy, risk adjustment) Providers empowered to manage total cost of care Central ability to identify TCOC opportunities and develop programs/resources to address Risk stratification capability Premium on care coordination Pay for performance Quality measures Need real-time actionable alerts (ADT data) Requires EHR-claims integration to report hybrid measures Ability to generate gap lists, track performance Patient segmentation by SDOH factor | Key features of ACO model | Data & Analytics needs |
|--|--|--|
| manage total cost of caredevelop programs/resources to address • Risk stratification capability• Premium on care coordination• Providers/care managers need access to data sitting in different systems • Need real-time actionable alerts (ADT data)• Pay for performance Quality measures• Requires EHR-claims integration to report hybrid measures • Ability to generate gap lists, track performance | | financial performance to numerous provider stakeholders Ability to drill down into performance drivers – both TCOC and revenue (rate adequacy, risk |
| Pay for performance Quality measures Requires EHR-claims integration to report hybrid measures Ability to generate gap lists, track performance | • | develop programs/resources to address |
| measures measures • Ability to generate gap lists, track performance | Premium on care coordination | sitting in different systems |
| Focus on Social Patient segmentation by SDOH factor | | measures |
| Determinants of Health (SDOH)(homelessness, SUD, etc.)Disease registry information | | (homelessness, SUD, etc.) |

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Integrating disparate systems and data is crucial to managing ACO performance

| | Clinical (multiple EHRs) | | |
|---------|--|--|--|
| | Claims – BMCHP | | |
| | Claims – Other risk contracts (e.g, BCBS) | | |
| | ADT | | |
| Data | Inpatient Auths / Behavioral Health discharges | | |
| | ACO Enrollment | | |
| | PCP Attribution | | |
| | Provider rosters | | |
| | Care Management enrollment | | |
| | Risk | | |
| | EHR (multiple) | | |
| | Claims Data warehouse(s) | | |
| Systems | Care Management systems | | |
| | Provider-facing tool (Arcadia) | | |
| | ADT Platforms | | |

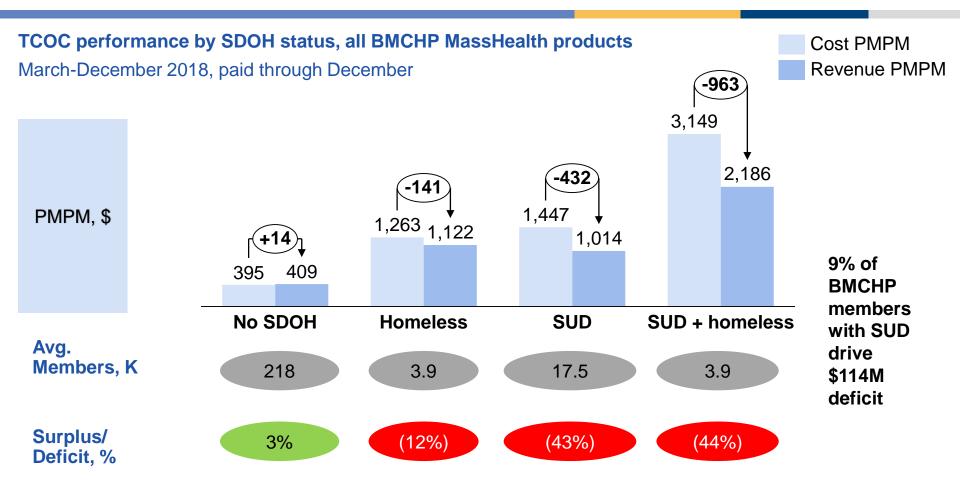
Achieving ACO objectives requires complex integration of multiple data sources



- 1 Risk stratification and securing appropriate revenue
- 2 Medical management / complex care management
- 3 Risk coding
- 4 Quality

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¹We use claims and SDOH data to better understand the drivers of our medical expense v. our funding



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2 HIE plays a key role in our Complex Care Management (CCM) program for our most high-risk and complex patients

CCM Core team: RNs and Community Wellness Advocates (CWA) who work in pairs within primary care practices; supported by PharmD's and pharmacy techs at some sites



Over a period of 3-6 mos, CCM teams partner with patients on goals related to:

- Chronic disease self management
- Behavioral health
- Social determinants of health

Key additional supports:

Community

- Nurse manager
- Local group medical champion & operational lead
- Local group behavioral health & OBAT teams, when available
- PCPs; Specialists—Medical & BH
- Community agencies

Role of HIE data in CCM program:

- + Generating risk scores to identify top 2% patients
- + Providing teams patient information on chronic diseases, housing status, etc...
- + Providing real-time alerts on IP or ED utilization (MAeHC data through a care management tool)
- + Tracking performance / ROI

Complete coding will impact overall Medicaid ACO performance

In yesterday's fee for service world:

 BMC was paid for every unit of service we provided

Incentive in this payment model:

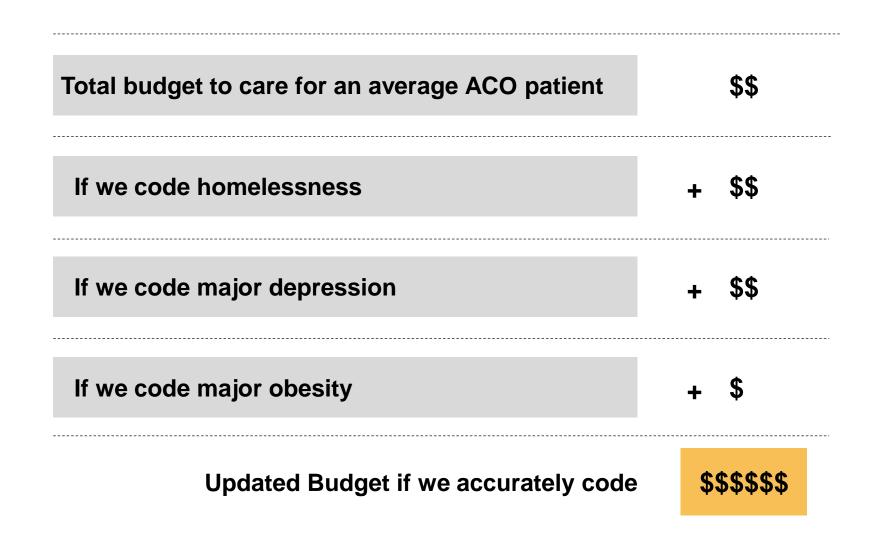
Focus on episodic care and accurate billing of (on site) services that are reimbursed by health insurers

In today's ACO world:

- BMC is given a pool of money intended to cover all of the services our patients need in a year
- The size of the pool is based on the complexity of the patients we serve
- The state knows how complex patients are based on the diagnosis codes we submit on our bills

Incentive in this payment model:

Focus on understanding and documenting the social and medical complexity of our patients ³Capturing all relevant conditions has impact on the total pool of money we are given to care for a patient



³A successful risk coding plan requires a multi-pronged approach, which can be enhanced with more complete data about each individual

| Pre-visit Planning | Point of Care | Post-Visit |
|--|--|---|
| Regular visits in Primary Care | Screening for high value conditions | Retrospective claims corrections |
| | Pre-visit planning processes | Holding claims for review |
| More information would | Real-time reminders and alerts to remind providers to code | Identification of codes |
| be available with integration of multiple data sources | Leveraging Complex Care Management Teams | hampered by lack of algorithms that account for DxCG risk model |

⁴ACO Quality Program is a key driver of overall performance; P4P started January 1st 2019 with 8 quality measures

2018

 20 quality measures designated by MassHealth

Pay for Reporting: All 20 measures

2019

 Pay for Performance: 8 Measures

2020 onward

 Additional 12 measures move to Pay for Performance ⁴ The initial 8 Pay for Performance metrics touch on a broad spectrum of patient populations and conditions

| | | Measure Name |
|------------------------------------|---|--|
| Prevention & Wellness Hybrid | | Childhood Immunization Status |
| | б | Adolescent Immunization Status (Tdap, Meningococcal, HPV) |
| | Timeliness of Prenatal Care (Visit in first trimester) | |
| nric ase ement | | Diabetes control- Poor HbA1c (HbA1c <9.0) |
| Chronic Disease Management | | Asthma Medication Ratio (controller to total meds ratio >0.5) |
| مالم | Claims | Metabolic Monitoring Pediatrics on Antipsychotics |
| Behavioral Health | 0 | Follow-up after hospitalization for Mental Illness (7 days) |
| | | Initiation and Engagement for SUD Treatment |

An additional 12 measures are added to the Pay for Performance slate on January 1, 2020 – many are specific to the MassHealth program

| | | Measure Name |
|---------------------------|---|--|
| BH & SUD Hybrid Claims | sm | Follow-up after ED for mental illness (7 days) |
| | ED visits for adults with mental illness and/or SUD | |
| | rid | Depression remission and response |
| | Hyb | Depression screening and follow-up plan |
| ent | | Acute readmissions |
| Inpatient | Claims | Acute unplanned admissions for individuals with diabetes |
| | | Community tenure |
| کا م | brid | Controlling high blood pressure |
| Primary care Hybrid | Health related social needs screening | |
| ሲ | S | Oral health evaluation for children |
| BMC | Claims | LTSS community partner engagement |
| B | | BH community partner engagement |

Require non-traditional data sources

⁴ Example: Bringing together health plan and provider data allow us to tailor interventions to subsets of patients with diabetes

- Combining medical and plan data together to deliver on our quality metrics is changing how we deliver care
- For example, providers have insights into patient medication adherence to guide care plans

Data providers traditionally have

| | A1c value | Medications |
|-----------|-----------|------------------|
| Patient 1 | 9.6 | Oral medications |
| Patient 2 | 10.2 | Oral medications |

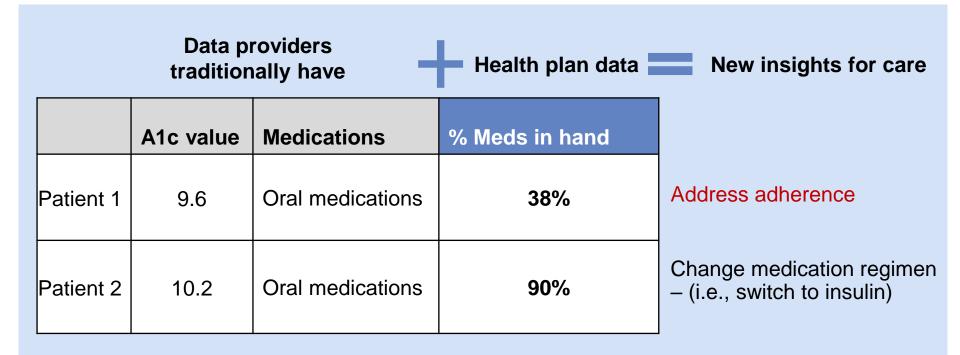
Clinical recommendation

Change medication regimen – (i.e., switch to insulin)

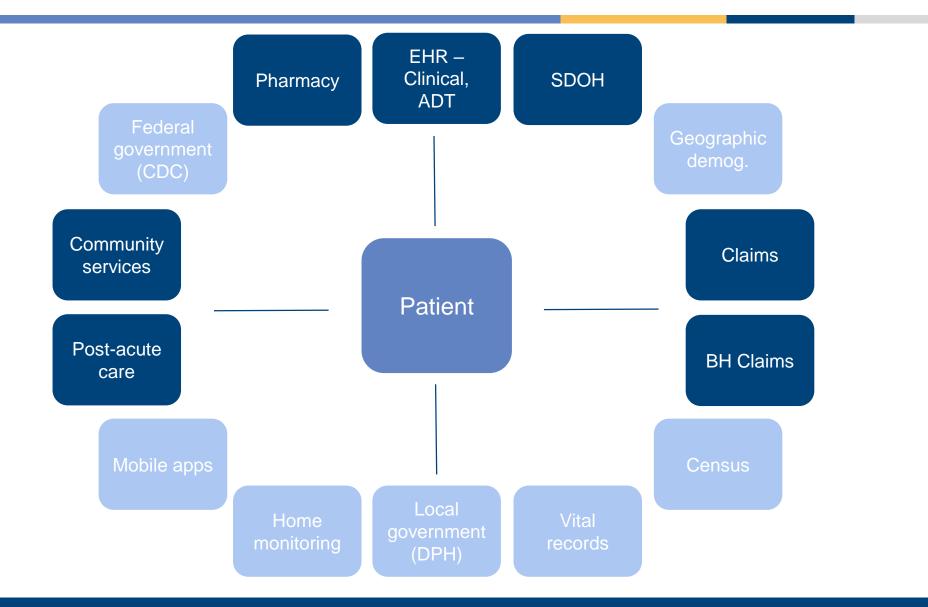
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There is a vast amount of health-related data, only a small portion of which we harness currently, and none of which integrates easily



What has worked well

- Data integration: EMR data integration has gone smoothly
- Back-end platform: Back-end database enables Analytics team to rapidly pull data on cost, utilization, patient demographics, risk profile, conditions
- Risk stratification/segmentation: While algorithm could be improved, have been able to identify high-risk patients for care management
- Quality: Able to validate the quality metrics across claims and hybrid, build dashboards, and provide upto-date gap lists

Ongoing challenges

- Risk coding: Lack of support for DxCG (MA risk adjustment model)
- Workflow: Front-end system difficult to learn/navigate; not integrated in normal PCP workflow
- Platform flexibility: Difficult to add needed fields or to create custom analyses on front end
- ADT data: Lack a common back end ENS provider and also front end platform to share ADT alerts across PCPs, care managers, care coordinators

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