



The Road map to success in the Value Based Care Models: Key learnings from the Oncology care Model

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Introduction: The US Healthcare system is in a state of crisis. Despite spending the highest amount on individual health in the world, the US ranked at the bottom of the most developed nations in results as per the Commonwealth Report. The Institute of Medicine described US healthcare as achieving “poorer health and shorter lives.” Spending is out of control, and patient's are not seeing any corresponding gains in either lifespan or life quality. Significantly driving this trend within the oncology world is the emphasis on volume-based reimbursement versus a focus on value. With this in mind, our practice at the CBCCA (Carolina Blood and Cancer Care Associates) decided to carry out practice transformation in 2011 to shift the focus from volume to value. The basic goal of our transformation was to improve population health at a local level, by creating a practice that was patient-centric, and provided a regimen of treatment for cancer that was value-based as opposed to volume driven, taking into account factors such as patient quality of life, secondary prevention of hospitalizations, cost savings to Medicare, and adherence to pathways. We would measure our success across both quantitative and qualitative measures.

Method: At CBCCA an 8 provider practice located in rural South Carolina, our transformation addressed the needs of our cancer patients in underserved areas of the state. Our patient population has disproportionately large percentage of Medicare/Medicaid patients with multiple challenges arising from Social Determinants of Health (SDoH) including food insecurity, housing issues, access to healthy food and technology in addition to utility issue etc. With an underserved and vulnerable population, the importance of our transformation was even more critical.

Our transformation was multi-fold and occurred from top to bottom staff wise. The roadmap we followed was certified by the NCQA (National Center for Quality Assurance) accreditation as a PCSP (Patient Centered Specialty Practice). We focused our transformation along patient navigation, same day services, 24/7 access, NCCN/Via guidelines, Quality Reporting and an IOM Plan, and Expanded Access/Weekend Hours. All of these steps were with the end goal of improving the population health of patients with multiple co morbidities our served area. So far to the best of our knowledge, we are the only NCQA certified PCSP in the state of SC. Our focus was primarily based on provided right access at right time. Our Expanded Access (Figure A; including same-day appointments and weekend access and partnering with local urgent care to reduce risk of unplanned ER visits, prolonged Observation stay and hospitalization) resulted in reduced ER visits and hospitalizations by our patients. With the addition of IOM care plans, patient navigation, and clinical pathways, we predicted that the transition to PCCC would lower expenses, improve patient experience, and would be likely to improve outcomes. Adhering to these principles of PCCC, we were able to achieve savings in all 11 performance periods throughout the duration of the OCM and to the best of our knowledge we are the only practice of our size in small to mid size practice that achieved savings

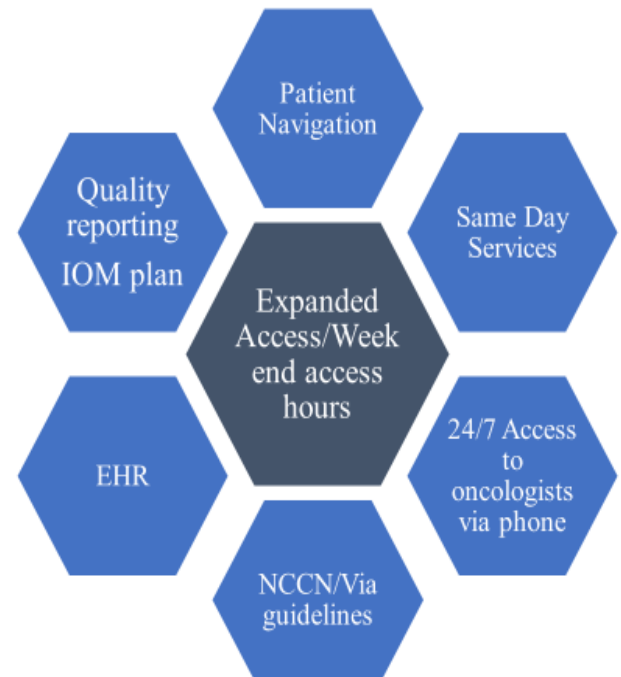


Figure A: Focus on expanded access on PCCC

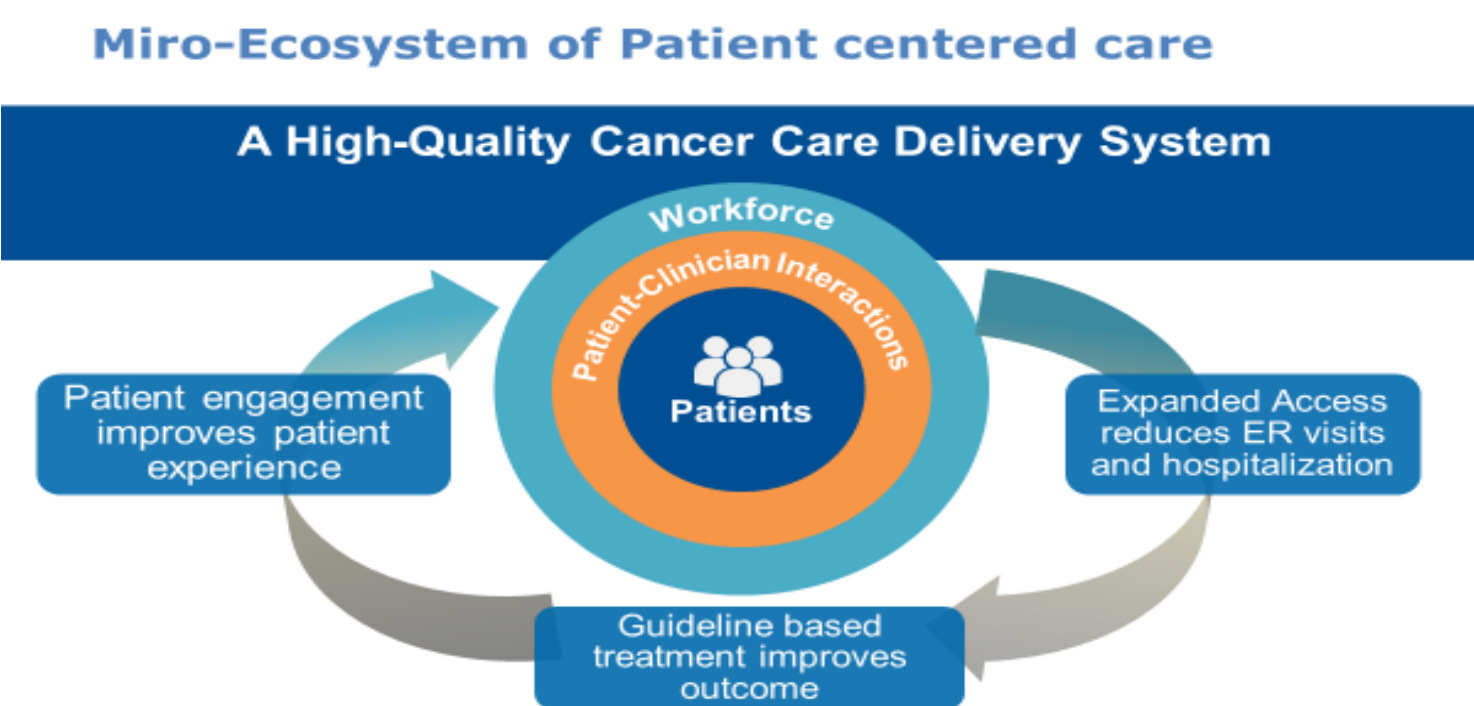


Figure B

Changes critical to success in PCCC			
Process/Intervention	Outcome	Savings	Quality of Life
Weekend access to MD	Reduced ER visit/hospitalization	Improved	Improved
Triage process/Navigation	Reduced ER visit; enhanced access to care	Improved	Improved
On-site radiology	Improved care coordination and enhanced patient experience	Improved	Improved
Weekend infusion	Reduced ER visit/hospitalization	Improved	Improved
Partner with local urgent care	Reduced ER/hospitalization	Improved	Improved
Supportive care pathways	Reduced ER visits and hospitalizations; proactive side effect and symptom management	Improved	Improved
In house palliative and spiritual care	Holistic, patient-centered care	Improved	Improved

Figure C,D,E : The role of Team work in OCM



Figure E



Figure F: Partnership with local urgent care to reduce hospitaliza-

Results: The population health impact of our practice transformation was profound. On a quantitative basis, we exceeded our goals significantly. Emergency Department visits not leading to admission or observation stays fell from 19 per 100 patients in April 2015 when the project was initiated to 14 in March 2017, when implementation was full completed. The figure has not rebounded after the 26% decline in emergency department visits among our patient population. Inpatient admissions to short term acute care hospitals and CAHs dropped from 27 per 100 patients in April 2015 when the project was initiated to 20 per 100 patients in March 2017, when implementation was fully completed.

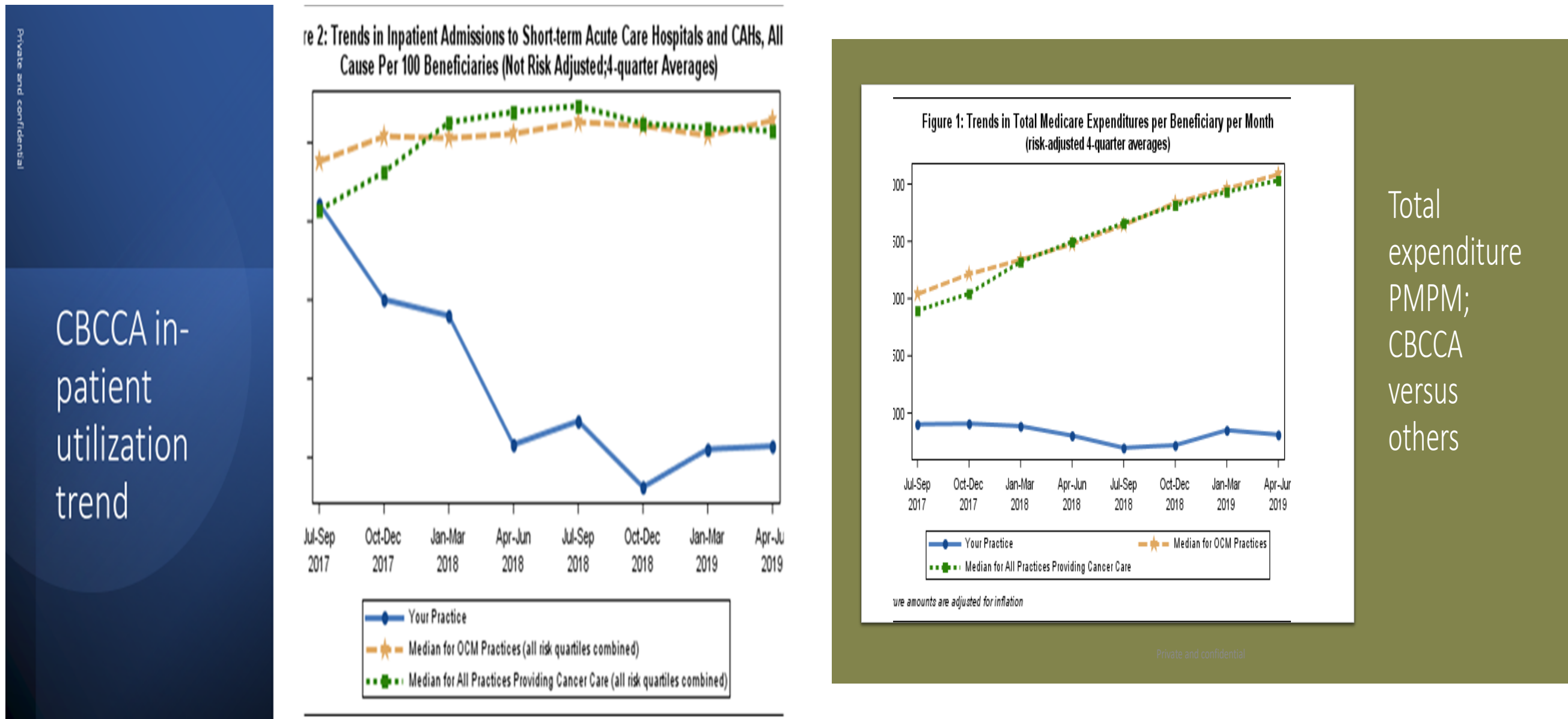
Our patient satisfaction surveys are delivering upwards of 75% patient satisfaction across all major parameters.

Our actions have simultaneously delivered cost savings to Medicare upwards of \$1 million.

Our transition has been wildly successful and achieved all of it's objectives: improved quality of life, lower costs, and a patient centric practice.

As a whole, the underserved population in South Carolina has seen population health measures among the cancer patients we serve improve both measurably and significantly, and our ability to serve the needs of our patients has also increased concurrently.

Figure G, H, I : Impact of PCCC on Trends in ED Visits; CMS data for OCM-426 (CBCCA); Reduced hospitalizations, total expenditure and drug spend



Expenditure categories: Carolina Blood and Cancer		Your practice		All practices providing cancer care	
versus all practices		re		Median expenditure amount	
Inpatient admissions to short-term acute care hospitals and CAHs, all cause		\$576		\$913	
Excluding admissions for chemotherapy, bone marrow transplant, and cancer surgery		\$527		\$793	
Unplanned readmissions within 30 days of discharge		\$116		\$185	
Resulting from ED visit and observation stay:		\$379		\$562	
Resulting from ED visit only		\$335		\$488	
Resulting from observation stay only		\$7		\$7	
Resulting from ED visit with observation stay		\$37		\$48	
Resulting from neither ED visit nor observation stay		\$199		\$334	
Observation stays not leading to admissions		\$20		\$24	
Resulting from ED visit		\$14		\$15	
Not resulting from ED visit		\$6		\$7	
ED visits not leading to admission or observation stay		\$17		\$29	
Part B: Physician and DME		\$1113		\$429	

Population Health Impact and learnings: Collaboration, communication, and engagement are critical aspects to successful implementation of this project at CBCCA. Prior to the start of implementation, a series of team building activities were held to ensure that all stakeholders among the staff would be brought on board to the workflow changes that would result due to our implementation. Without successfully changing the mindset of our practice, from physicians, to nurses, to medical assistants, to front desk staff, our implementation would have failed. Our nurses became certified as patient navigators. Alongside our standard implementation, staff members also became designated as financial counselors for under- or un-insured patients, and would specialize in finding grant assistance or drug replacement assistance to ensure that patients would receive the treatments they needed. Not a single patient has had to be turned away from CBCCA due to financial hardships. We were able to raise over 2.3 million dollars in indigent funds and/or free drugs on an annual bases from several foundations to support caring for all patients at our cancer clinics.

Furthermore, the transformational process involved an increase of visibility to the patient as well. Patient engagement has since become a critical and sustained component of our practice transformation, and we continuously attempt to implement new technology solutions to improve engagement further. The only way for such a transformation to be possible was through the collaboration, communication, and engage-

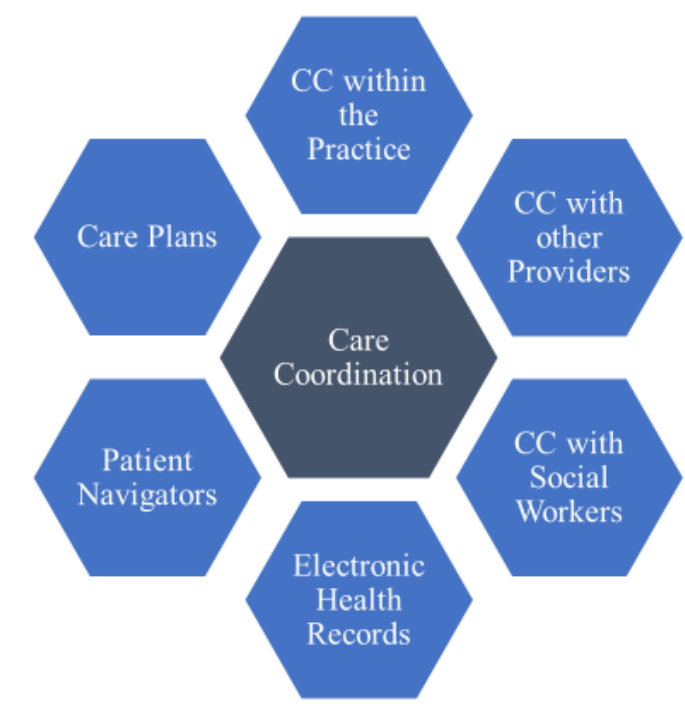


Figure J: The role of Care Coordination in PCCC

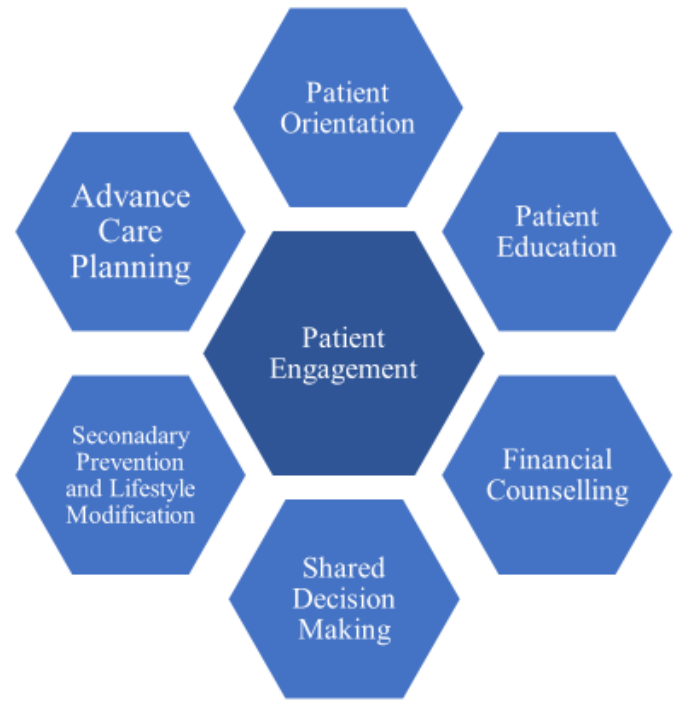


Figure K: Elements of Patient Engagements Led to Fulfill triple aims

Critical to a successful transformation on overall population health is it's ability to be replicated and scaled without undue difficulty. Our transformation plan can easily be scaled and implemented at any practice nationwide. We have already had our success story highlighted by NCQA as an example of how an otherwise ordinary cancer care practice can engage in successful practice transformation. And the impact on population health of the served areas can also be replicated should the transformation be undertaken and implemented.

Our formula for success is dependent on strict adherence to the facets of PCSP highlighted previously in this application. Patient navigation, same day services, 24/7 access, NCCN/Via guidelines, Quality Reporting and an IOM Plan, and Expanded Access/Weekend Hours are all factors that any oncology practice can implement in a timespan of six to eighteen months. The primary difficulty is not in the complexities of the transformation, but rather, overcoming the inertia that has resulted in the oncology world from decades spent in the traditional buy-and-bill approach to cancer care; an approach that has relegated patients to the rear view mirror. If that mindset and inertia can be overcome, our model can be replicated at any oncology practice in the nation, and the populations served by new patient-centric practices should see lower hospitalizations, higher patient quality of life, and improved population health measures accordingly.

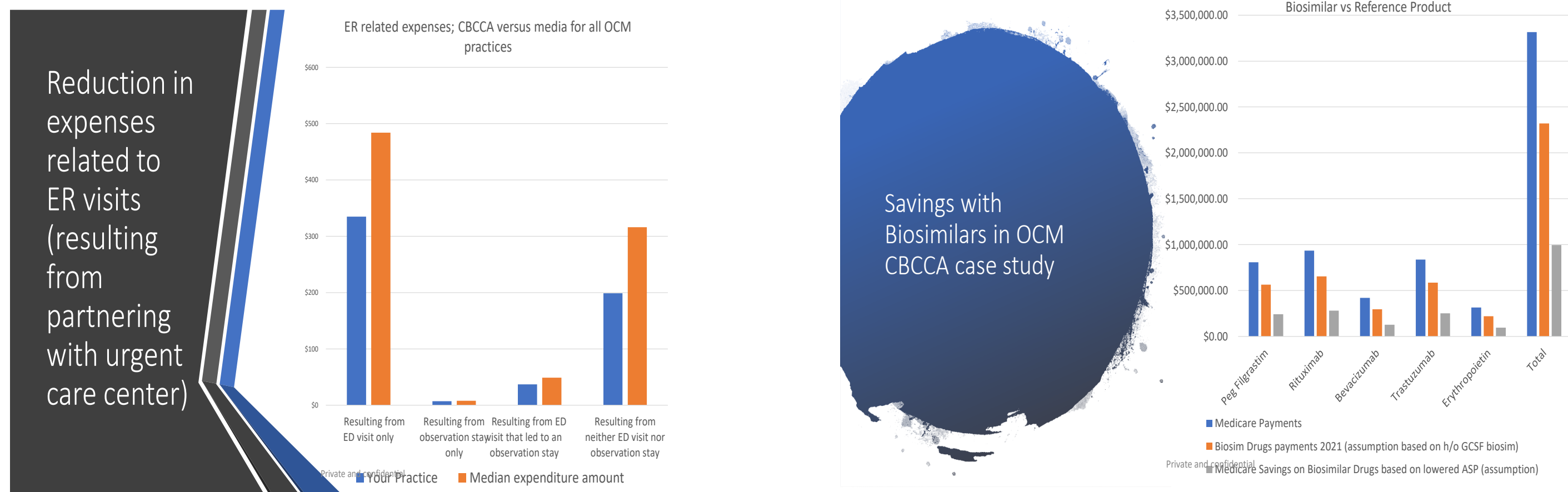


Figure LM: How reducing ER visits and biosimilars help us achieve our aims of succeeding in the VBC

The concept of a value driven approach to cancer treatment is entirely new. As a part of our practice transformation, we have taken part in the Oncology Care Model (OCM). OCM is the first major initiative by the Center for Medicare and Medicaid Innovation (CMMI, a division of CMS) to pilot the transition from fee-for-service toward value-based care and PCC.

Our approach to patient centric care has aligned us well towards the objectives of OCM, which revolve around creating an approach to cancer care that emphasizes value over volume. As such, when practices were invited to enroll in the pilot, our previous transformation allowed us to be a prime candidate for this innovative reimbursement model.

We were selected to participate in the OCM model through a highly competitive selection process and have subsequently exhibited significant success and scored routinely in the top range of the shared savings model.

Additionally, our approach to patient centric care allowed us to expand our patient services to beyond cancer treatment to lifestyle adjustment. We have hired a dietician to provide lifestyle modification help to patients who are candidates. We furthermore offer tobacco cessation interventions, transitional care management to prevent frequent rehospitalizations, and chronic care management, while allows us to proactively monitor our most vulnerable patients with multiple chronic conditions.

Our population health approach is not limited to what is suggested by accreditation boards: we seek to leverage patient engagement at all levels, and lifestyle change beyond cancer treatment is an additional means of improving population health in the rural, underserved South Carolina population we serve.

Future Steps: What we are doing at CBCCA is take a new approach to of cancer care that will help resolve create a new roadmap to transition from the FFS to VBC. With costs spiraling out of control, it is of the utmost importance that a new approach that prioritizes the quality of care. Our approach to tackling this problem is a transformation which can be easily replicated at any other oncology clinic that fulfills the triple aims of reducing overall cost, improving patient experience and improving outcomes. Have demonstrated that no matter what size a practice is, willingness of practice leaders, alongside building a team work would most definitely can result in reducing total cost of care with much better patient satisfaction fulfillinh these triple aims, with measurable reductions in cost of care, in ER visits and hospitalizations, and significantly improved patient experiences.