## Almost there....

## ASPIRE Updates and Wrap up



#### Blue Cross Blue Shield of Michigan – Potential Value Based Reimbursement Opportunity





Blue Cross Blue Shield of Michigan and Blue Care Network are nonprofit corporations and independent licensees of the Blue Cross and Blue Shield Association.

#### **Current Specialist VBR Opportunity**

Standard BCBS			
Ranked in top third of practices	Ranked in second third of practices	Ranked in bottom third of practices	Percent of Standard Fee Schedule
		Х	100%
	Х		105%
X			110%

Measurement Period for Specialist VBR	Reimbursement Period (applicable to claims for the dates of service below)
July 1, 2016 – June 30, 2017	March 1, 2018 – February 28, 2019

- Current BCBSM Specialist Value-based Reimbursement Model
- VBR applies to all professional relative value unit (RVU) based procedure codes and the anesthesia time and base codes\*
- VBR applies to commercial claims only
- Specialists must be enrolled in PGIP to be eligible (must be in PGIP 1 year prior to receiving the VBR)
- Based on population health metrics

\*Applies to virtually all codes except those for ambulance service, durable medical equipment, prosthetics and orthotics, anesthesia, immunizations, hearing, vision, lab, dental and most injections





## **Types of Metrics Used in Current Specialist VBR**

## **Practice level**

- Evaluates care provided directly by the practice
- Rarely used in specialist VBR methodology

### **Population level**

- Evaluates care provided to shared populations treated by the practice
- Calculated at PO level and weighted at the practice level based on shared populations
- Most commonly used in specialist VBR methodology





### Potential CQI VBR Opportunity Being Evaluated for 2018/2019

Standard BCBSM Value-Based Reimbursement			New CQI VBR	
Ranked in top third of practices	Ranked in second third of practices	Ranked in bottom third of practices	CQI Participants that met target	Percent of Standard Fee Schedule
		х		100%
		х	х	103%
	х			105%
	х		х	108%
x				110%
x			х	113%

- Would complement, not replace, the Specialist VBR
- Performance measures, targets and methodology designed by the Coordinating Center
- Utilize CQI registry data
- Eligible physicians would receive an additional 3% increase over the standard fee schedule (no PO nomination, similar to specialist VBR)
- Currently being proposed by BCBSM CQI administration for a 2018 VBR
- RVU based PPO commercial claims only similar to Specialist VBR





### Eligibility for Specialist VBR (or any potential BCBSM VBR)

- To be eligible for a Specialist VBR, a physician:
  - Must be enrolled in Blue Cross Blue Shield of Michigan's PGIP program through one of the affiliated PGIP physician organization (PO)
  - Must be enrolled in a PGIP PO <u>at least one year prior</u> -
    - 2018 VBR If not on the January '17 and July '17 PGIP physician lists, then the physician is NOT eligible for any 2018 VBR
    - 2019 VBR the physician must be enrolled in a PGIP PO by first week of January 2018
  - Must be nominated by their affiliated PGIP PO annually (for Specialist VBR)
    - Nomination does not necessarily mean you will receive VBR (bottom third of physicians will not receive Specialist VBR)





### **Specialist VBR results for ASPIRE CQI Participating physicians**

- Number of physicians contributing data to the CQI 437
- Number of CQI physicians that are in a PGIP PO (as of July 2017) 335
- Number of physicians that are NOT currently in a PGIP PO (as of July 2017) 102
- Number of physicians that are currently receiving Specialist VBR 286

#### A list of PGIP Physician Organizations will be made available by the Coordinating Center





#### PGIP Enrollment of Specialists Participating in CQIs – Who's Involved

#### BCBSM Value Partnerships

- Notifies the PGIP POs quarterly (July, Oct, Jan, Apr) of physicians not enrolled in PGIP
- Notifies POs on who's participating in CQIs to support PO nomination of the physician for specialist VBR

#### PGIP Physician Organization (PO)

- Responsible for enrolling the physician in PGIP
- May communicate to the physician(s) regarding interest in enrolling them in the PO
- Nominates physicians within the PO for Specialist VBR

#### CQI Coordinating Center

 Aware of who's in and not in PGIP and may be able to notify the physician or physician champion of Non-PGIP enrolled physicians CQI Physician Champions or Engaged Physicians

- Notify any affiliated physicians participating in the CQI that are nonenrolled in PGIP
- Those physicians not enrolled in PGIP may inform their colleagues to enroll in their affiliated PO





#### **Next Steps Towards PGIP Enrollment**

- If a physician is not in PGIP currently
  - Need to be enrolled by the first week in January 2018 to be eligible for 2019 VBR
  - POs have been notified by BCBSM Value Partnerships of physicians not in PGIP as of July 2017
- A list of POs' contact information will be made available to the Coordinating Center to assist PGIP enrollment
  No PGIP Enrollment = No Specialist VBR Eligibility





## What we talked about last year....

# 2017 Planning

- Integration with other CQIs (MVC, MARCQI, MSQC...)
- Less total effort adding sites
- More effort working with existing sites on programs, measures, data quality
- More effort improving Application Suite
- Patient-centered iOS application



## What we have done and what we're working on....

- Integration with other CQIs (MVC, MARCQI, MSQC...) yes
  - MVC, MSQC
- Less total effort adding sites yes
  - New Epic extract ("flatfile")
- More effort working with existing sites on programs, measures, data quality maybe
  - ARC toolkit released, no education modules, pace of new measure release slower
- More effort improving Application Suite **yes** 
  - Updated Case Viewer, Data Diagnostics, Variable Mapping, Location Mapping, NSQIP/STS Import, Transfer, Case by Case Validation
- Patient-centered iOS application yes



# Why should we PROSPER?

- We have a good understanding of medical "outcomes" complications that we as providers believe are not the ideal result
  - Working to integrate data from registries, labs, administrative data to improve reporting to you
- We still don't understand daily patient postop experience or baseline
- Surgeons doing decent job of collecting procedure-specific patient reporting outcomes
- Anesthesia providers must understand overall patient experience across procedure – patient report outcomes (PROs)
- Long term, PROs may serve as
  - quality measures (pain, etc) or
  - ways to assess impact of existing process of care metrics



# PROSPER

- An application that collects active survey data and passive data (from smart devices) from patients
- Initial use will be to understand how this type of data correlates with perioperative care processes
- Will use combination of NIH PROMIS measures and passive data collection
- Collect preoperative baseline data and postoperative data
  - Episodic active survery data
  - "Continuous" passive activity, heart rate, and location data
- ResearchKit application building upon experience from hundreds of patients using the Framingham Heart Study iOS application developed by CareEvolution (our Galileo analytics vendor)



PROMIS<sup>®</sup> (Patient-Reported Outcomes Measurement Information System) is a set of person-centered measures that evaluates and monitors physical, mental, and social health in adults and children.

- Developed and validated with state-of-the-science methods to be psychometrically sound and to transform how life domains are measured
- Designed to enhance communication between clinicians and patients in diverse research and clinical settings
- Created to be relevant across all conditions for the assessment of symptoms and functions
- Available in multiple formats and easily integrated into diverse data collection tools.
- Translations available in Spanish and many other languages



http://www.healthmeasures.net/exploremeasurement-systems/promis



## Our plan

• Pilot enrollment and data integration with UM patients

- Expand to interested ASPIRE sites, work with you to implement process to allow patients to download application
- Centralized UM IRB (just like all online ResearchKit apps), explicit patient consent
- Track active and passive data collected from smart device
- Link to surgical procedure/episode using central MPOG EHR data
- Develop analytics and feedback for the patient AND each participating site and research teams
- Do not interfere with existing care management/clinical applications
  - Will not recommend clinical decisions or actions (NPO status, etc)
  - Continue with your mobile Health strategy



# **PROSPER Demo**



## Measure Timeliness Analysis

- Questions from sites should we delay reporting of some/all measures because measure performance is changing due to submissions of billing codes
- Goal: to decide if we should delay reporting of measure performance
- Methodology We picked a month (March 2017) and compared results with and without billing code exclusions



# CPT Prediction Tool: An Example of Machine Learning in Anesthesiology

- There are several opportunities to implement ML in ASPIRE
- One example: Assigning CPT codes to submitted data automatically
- Overcomes the time gap in the process of assigning CPT to cases
- Streamline the process of excluding/including cases in ASPIRE

**Definition**: Machine learning is a method of data analysis that automates analytical model building. Using algorithms that iteratively learn from data, machine learning allows computers to find hidden insights without being explicitly programmed where to look.



## Machine learning examples in everyday life:







## **Typical Machine Learning Process**





## Assigning CPT codes to submitted data automatically

- Site inputs: Gender, age, procedure text, case duration, assigned anesthesia CPT values
- Find correlations in assignment build model from these correlations
- Test and train model
- Improve model over time with new data
- End result: real-time initial CPT assignment















- Plan is to continue one ASPIRE only meeting/year (plus 2 others)
- Meeting location and times Lansing work?
- Combined meeting with other CQIs?
- Content?



