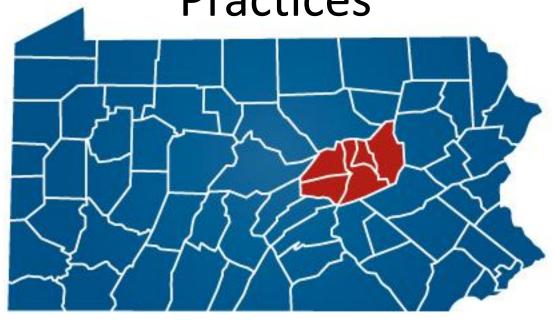
Beacon Initiatives: Best Practices



Janet Tomcavage, RN, MSN
Chief Administrative Officer,
Geisinger Insurance Operations

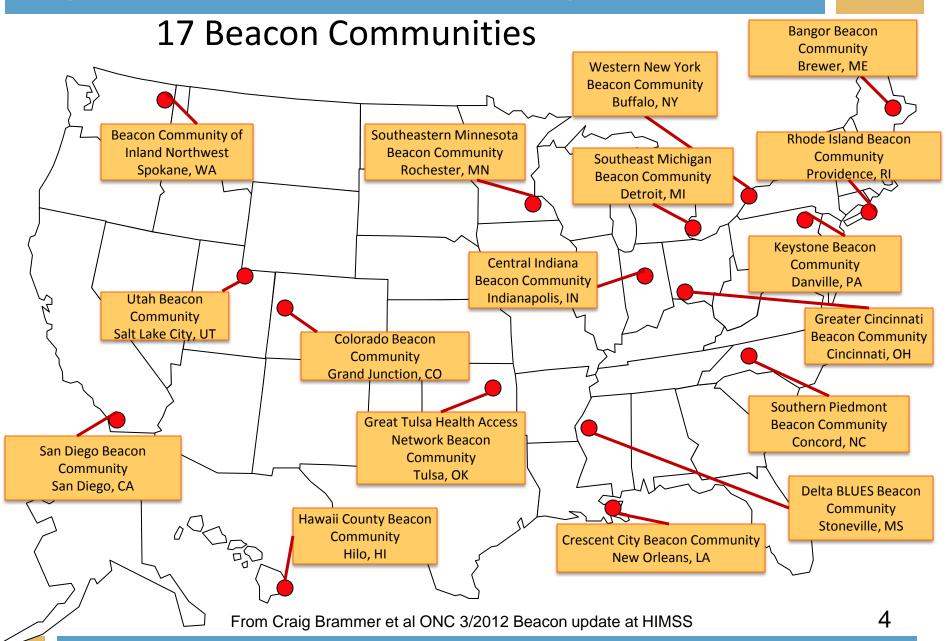
Learning Objectives

- 1. Describe the Keystone Beacon care management model.
- 2. Highlight the most common care gaps identified.
- 3. Discuss the analytical challenges faced in a multi-payor, multi-provider initiative.



What is the Beacon Award?

- \$16 million 3-year award from ONC
- Leveraging care innovation and information technology to improve care coordination and reduce costs
- 17 awards across the nation
- Started in April 2010 and runs thru March 2013

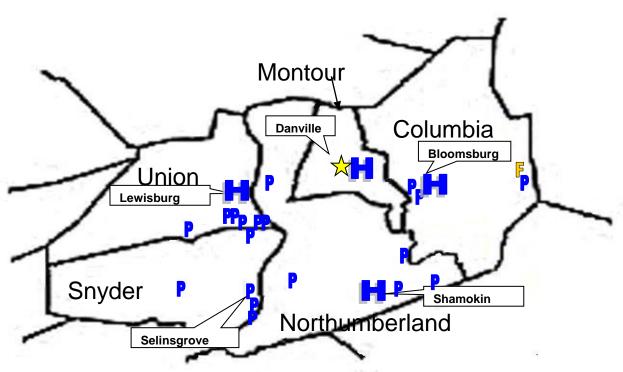


Care Management Model

Coordination Across the Care Continuum

Patient-focused, evidence-based, community-wide care coordination supported by Health IT

HF and COPD in 5 counties in rural Pennsylvania
24 organizations over 60 locations across the care continuum



Developing a Care Coordination Model for Success

- ED notification
- Decision support tools

HIT

TOC

- Medication reconciliation
- Timely outreach to PCP

- Proactive ID
- Acute care protocols

High Risk Management

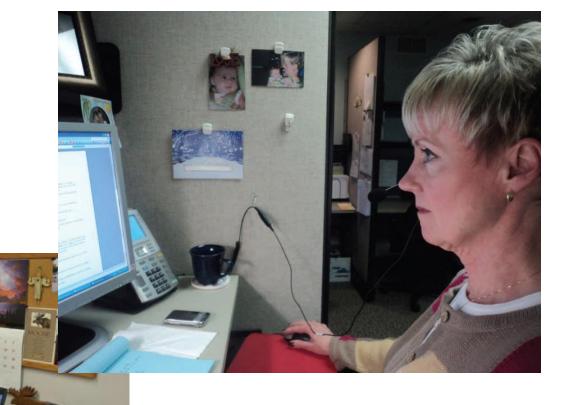
Aligning the Community to one standard of care

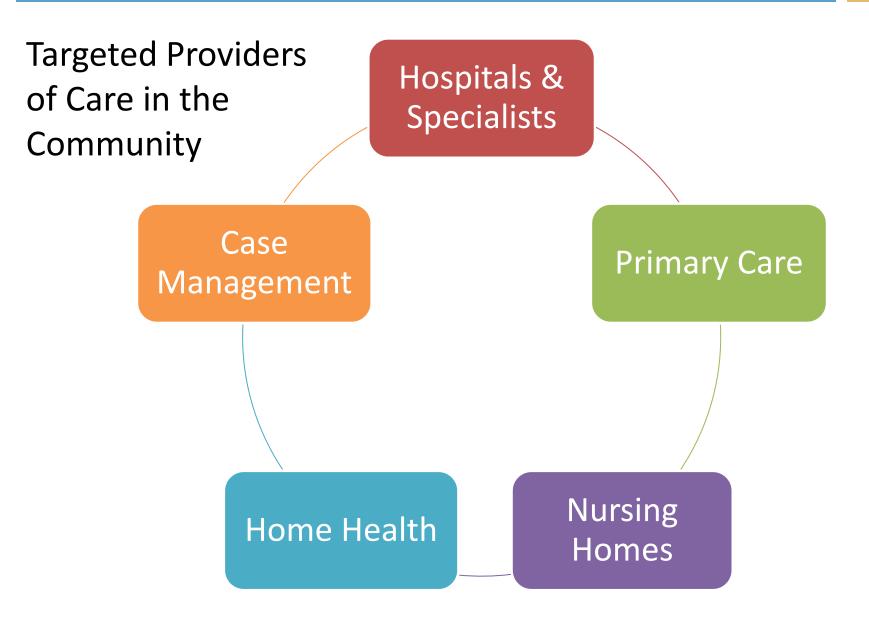
Expanding Nursing's Role

- Inpatient Discharge Liaison
 - Medications & condition management
 - "Teach back"
 - Hand off to outpatient teams
- Transitions of Care Call Center
 - 30 day follow-up
 - Medications, safety and "action plans"
- Outpatient medical homes
 - Proactive identification of HF & COPD
 - Medication management, SMAPs for acute exacerbation management

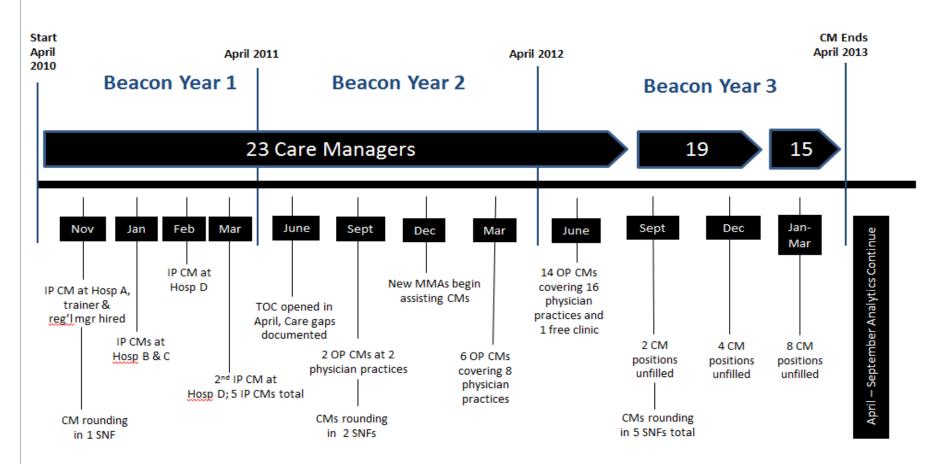


Case Managers at work



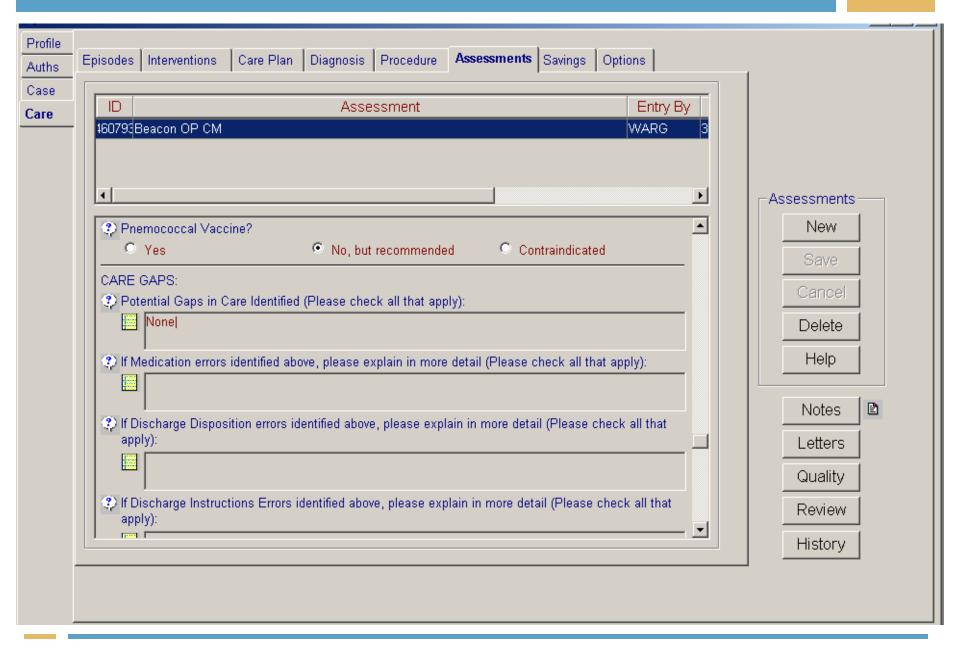


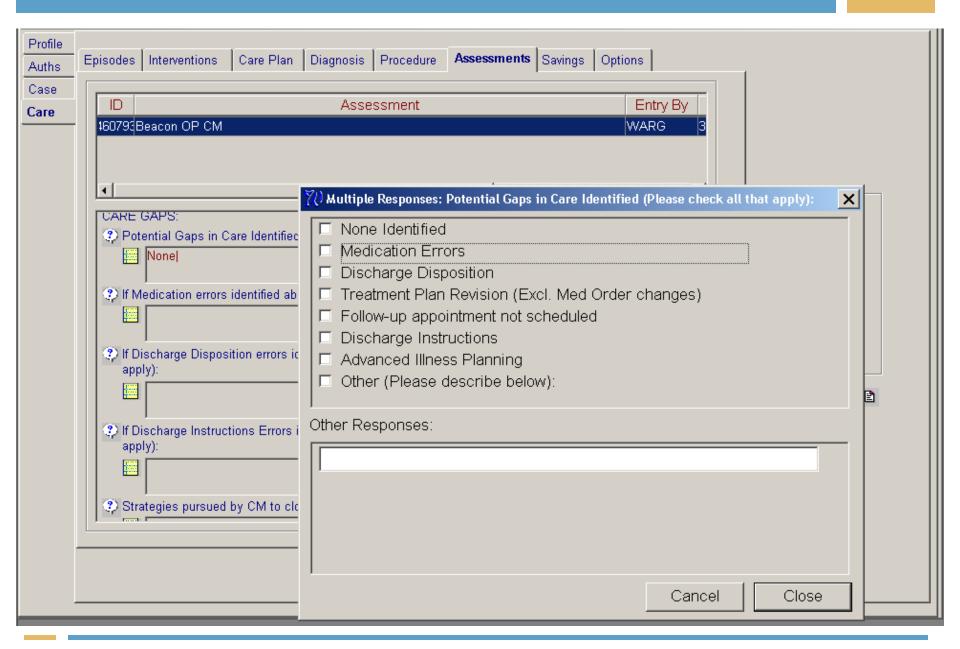
Keystone Beacon Care Management Timeline

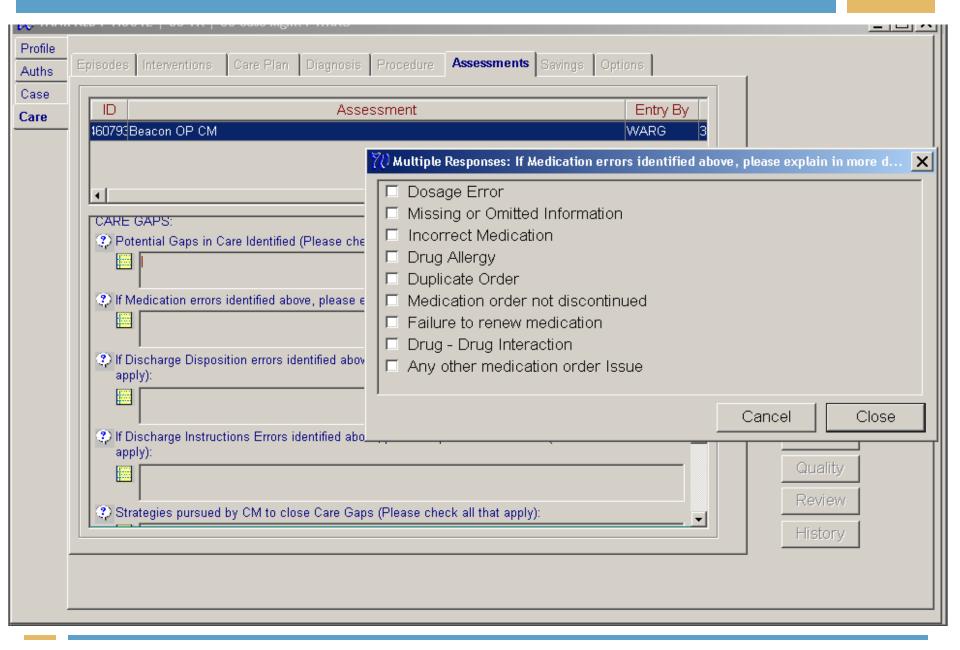


CM = Care Manager MMA = Medical Management Associate TOCC = Transitions of Care Center

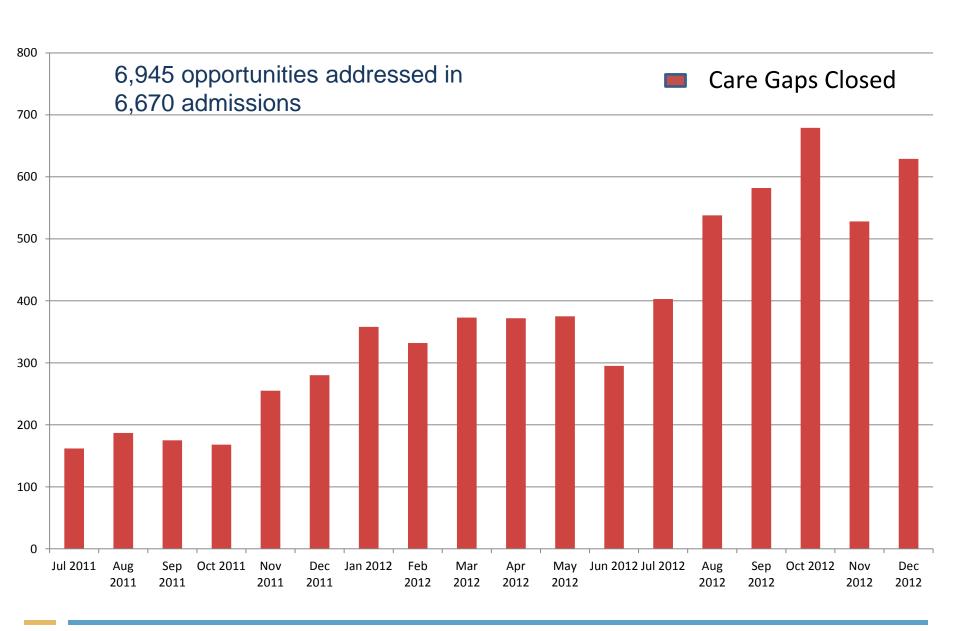
^{*} Between the time periods of May 2012 and January 2013 several care managers left the project and others shifted assignments to cover as many of the participating facilities and ambulatory practices as possible, albeit at smaller volumes in some settings.







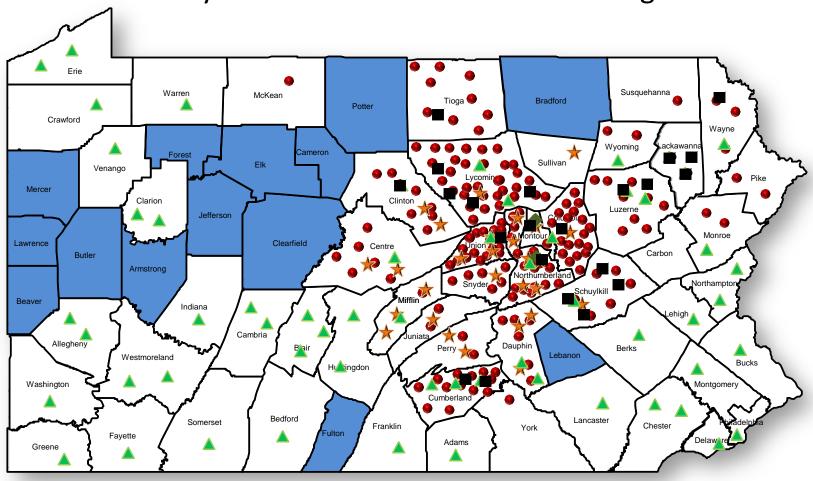
	Medication Errors	Treatment Plan Revision (Excluding Medications)	Follow-Up Appointments Not Scheduled	Unsafe Discharge Disposition	Inadequate Discharge Instructions	Incomplete Advanced Illness Planning	Other	Total Care Opportunities Addressed
Jul-11	3	37	105	17	0	0	0	162
Aug-11	7	45	129	6	0	0	0	187
Sep-11	4	51	108	12	0	0	0	175
Oct-11	10	24	117	15	1	1	0	168
Nov-11	42	7	135	21	24	11	15	255
Dec-11	61	5	135	12	36	3	28	280
Jan-12	64	9	194	14	38	6	33	358
Feb-12	44	11	177	20	39	10	31	332
Mar-12	58	12	193	29	35	5	41	373
Apr-12	54	22	199	28	17	20	32	372
May-12	64	15	194	15	28	18	41	375
Jun-12	62	12	108	19	37	28	29	295
Jul-12	63	24	155	25	69	27	40	403
Aug-12	74	28	191	39	107	38	61	538
Sep-12	97	26	155	36	120	61	87	582
Oct-12	120	29	194	27	116	77	116	679
Nov-12	71	53	125	29	77	41	132	528
Grand Total	898	410	2614	364	744	346	686	6062



Health Information Technology

Enhancing Connectivity

Keystone Health Information Exchange®



36 Unique Healthcare Companies

22 Hospitals

173 Physician Practices



28 Home Health locations



61 Long Term Care Facilities

New features for Clinician Viewer:

- Alerts/Notification
- Secure Messaging (DIRECT)
- View Continuity Care Documents "CCD"
- Upload paper documents



Q Last Name, First Name

Search

VIEW MORE

Documents

Notifications

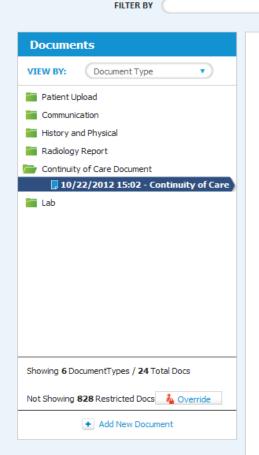
Notification History

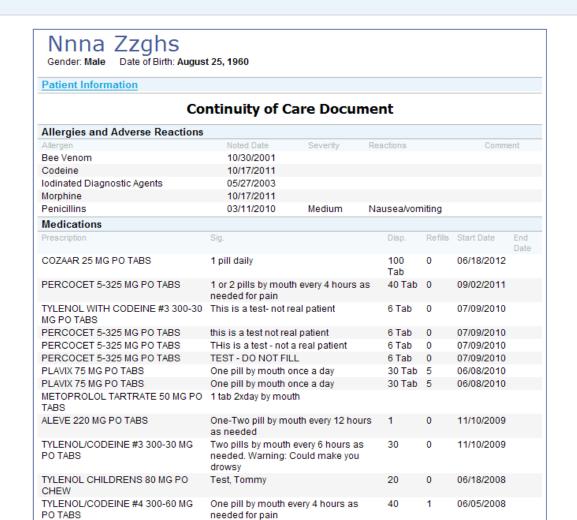
Secure Messaging

Tools

Encounters

ZZGHS,NNNA 08-25-1960 - 52yr old Male





- Web-based personal health record (PHR)
- View personal records in KeyHIE®
- Automatic flu-shot reminder
- Exchange secure e-mail with care team
- Upload paper records ("3-ring binder")
- Validated health information (Medline Plus)

^{*} One health system and two colleges participating





Welcome

☑ Preferences | △ Help | ※ Sign Out

& Patient: DOB:

Gender: M Phone:

Records

Messages | Health Information

My Records

Need Immediate Service? Please call your healthcare provider directly.

Upload Documents

Date 🗢	Type \$	Source Institution \$
09/20/2012	CHEMISTRY STUDIES~Lipid panel	Geisinger Health System
09/20/2012	CHEMISTRY STUDIES~Glucose	Geisinger Health System
09/20/2012	CHEMISTRY STUDIES~TSH	Geisinger Health System
09/20/2012	HEMATOLOGY STUDIES~CBC w/ Differential Panel	Geisinger Health System

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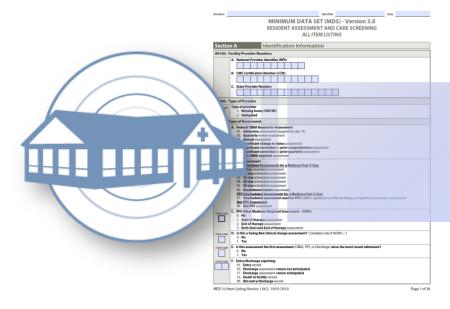
Contact Us Terms & Conditions T- T+

Long-term Care and Home Health

- 15,000+ Nursing Homes are Medicare certified
- 12,000+ Home health agencies are Medicare certified
- Few of these with EHRs can produce a CCD



The "Gobbler"



MDS 3.0 or OASIS

Long-term care & home health "get in the game"



Medical Summary



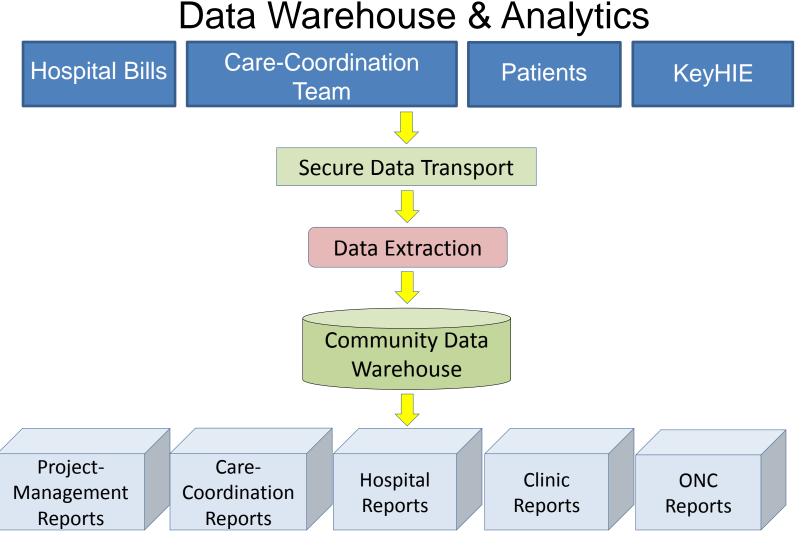
24

Remote Patient Tele-monitoring

- Current vendor Advanced Monitored Caregiving
- Benefits of telemonitoring:
 - Extends care manager reach
 - Helps prioritize the patients to focus on
 - Provides that daily "touch" with the nurse for the patient
 - Provides early warning signs

- Current Case Management Telemonitoring Programs:
 - Bluetooth scales and/or IVR for Heart Failure
 - Post D/C IVR post discharge
 - HTN: Bluetooth BP cuffs with nephrology
- Future (in development):
 - Diabetes
 - COPD
 - Kiosks
 - In-home video monitoring

Developing Meaningful Analytics



Analytic Challenges

- Staffing
- Understanding need & execution of data agreements
- Lack of trust regarding appropriate use of data
- Clear communication of data needs
- Technical abilities of source data resources
- Depth of data available
- Lack of financial incentives for hospitals
- Providing meaningful data back to hospitals

Community Data Warehouse

- Secure IT infrastructure with appropriate security levels
- Secure data transmission (FTP)
- Searchable Care-Coordination information

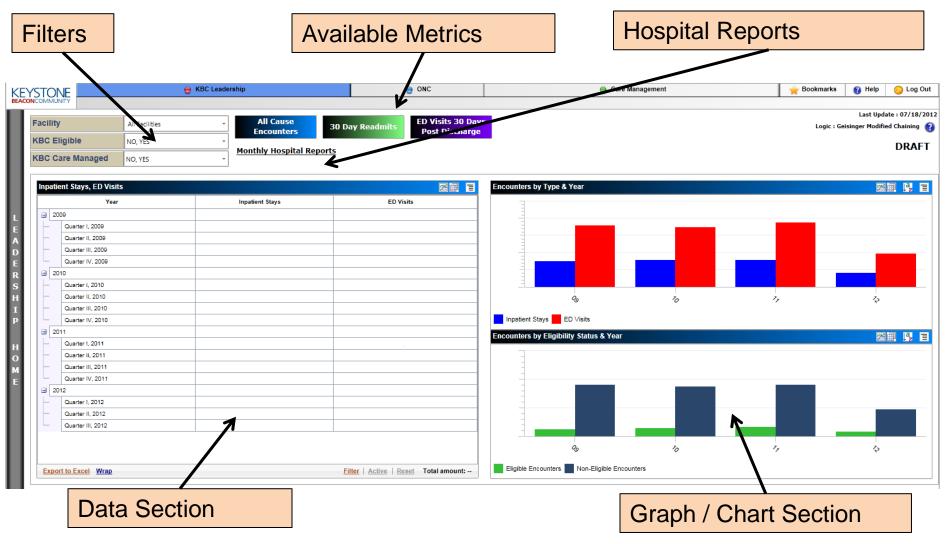
Custom Reports (dashboards)

- Care Coordination
 - Provides both high level and patient detail information. The majority of the information provided within here is updated weekly and used to identify patients that can be targeted for KBC Care Management.
- Hospitals
 - Monthly reports to all KBC participants with new readmission and care management information.
- (Clinics) In Development

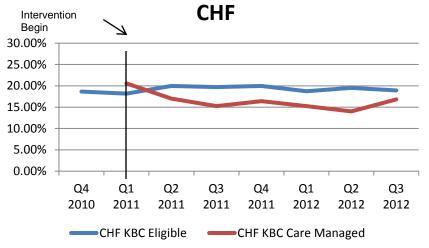
Automated data feeds

- Hospitals, Care-management software, KeyHIE
- Data Access Policy (aggregated data)
 - Task-appropriate access

CM Dashboard



30 Day Readmission Rates : KBC Eligible VS KBC Care Managed

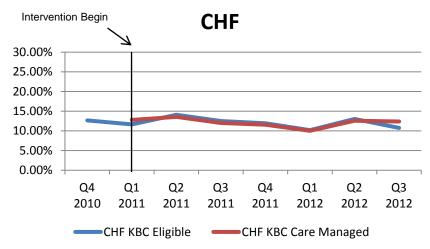


—— CHI KBC Eligible —— CHI KBC Care Managed					
Calendar Quarter	CHF KBC Eligible	CHF KBC Care Managed			
Q4 2010	18.64%				
Q1 2011	18.15%	20.57%			
Q2 2011	19.95%	17.01%			
Q3 2011	19.70%	15.26%			
Q4 2011	19.95%	16.40%			
Q1 2012	18.74%	15.24%			
Q2 2012	19.50%	14.01%			
Q3 2012	18.91%	16.83%			

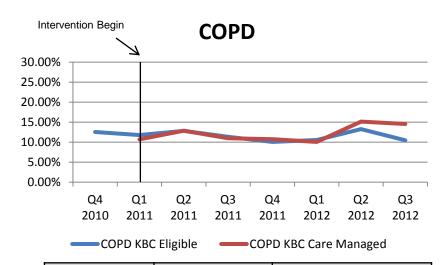
Interve	Intervention Begin		(COPE)			
30.00%		7						
25.00%								
20.00%								
15.00%								
10.00%								
5.00% -								
0.00%			T	Γ	T	Ι	Ι	1
	Q4 2010	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012
	— cc	PD KBC	Eligible	_	COPD KE	BC Care N	∕Ianaged	

Calendar Quarter	COPD KBC Eligible	COPD KBC Care Managed
Q4 2010	16.08%	
Q1 2011	16.79%	19.07%
Q2 2011	16.27%	16.40%
Q3 2011	17.47%	14.89%
Q4 2011	16.21%	15.95%
Q1 2012	16.80%	14.57%
Q2 2012	16.16%	13.43%
Q3 2012	16.10%	14.53%

ED Visits 30 Days Post Discharge : KBC Eligible VS KBC Care Managed



Calendar Quarter	CHF KBC Eligible	CHF KBC Care Managed
Q4 2010	12.66%	
Q1 2011	11.64%	12.77%
Q2 2011	14.08%	13.54%
Q3 2011	12.50%	12.01%
Q4 2011	11.90%	11.56%
Q1 2012	10.17%	10.00%
Q2 2012	13.04%	12.59%
Q3 2012	10.76%	12.38%



Calendar Quarter	COPD KBC Eligible	COPD KBC Care Managed		
Q4 2010	12.54%			
Q1 2011	11.80%	10.70%		
Q2 2011	12.83%	12.86%		
Q3 2011	11.33%	11.00%		
Q4 2011	10.05%	10.74%		
Q1 2012	10.54%	10.05%		
Q2 2012	13.27%	15.14%		
Q3 2012	10.47%	14.53%		

Healthcare challenge: Post-surgical patient was having significant side effects that she thought were related to her surgery.

Resolution: Careful assessment led the Keystone Beacon CM to suspect the side effect was related to a medication dose and timing. The CM contacted the patient's physician who recommended changes in the medication dosage and timing, eliminating the side effect as well as a potential emergency room visit.

