



Care Delivery Work Group:
Discussion of Potential HIE Tools
for Development

December 9, 2015

Overall HIE Goals of the District

- Promote increased health care system integration
- Encourage greater connectivity between providers
- Increase access to and use of data in the DC HIE
- Assist increased quality measurement and reporting
- Support the Health Home initiative(s)

Potential Tools/Initiatives

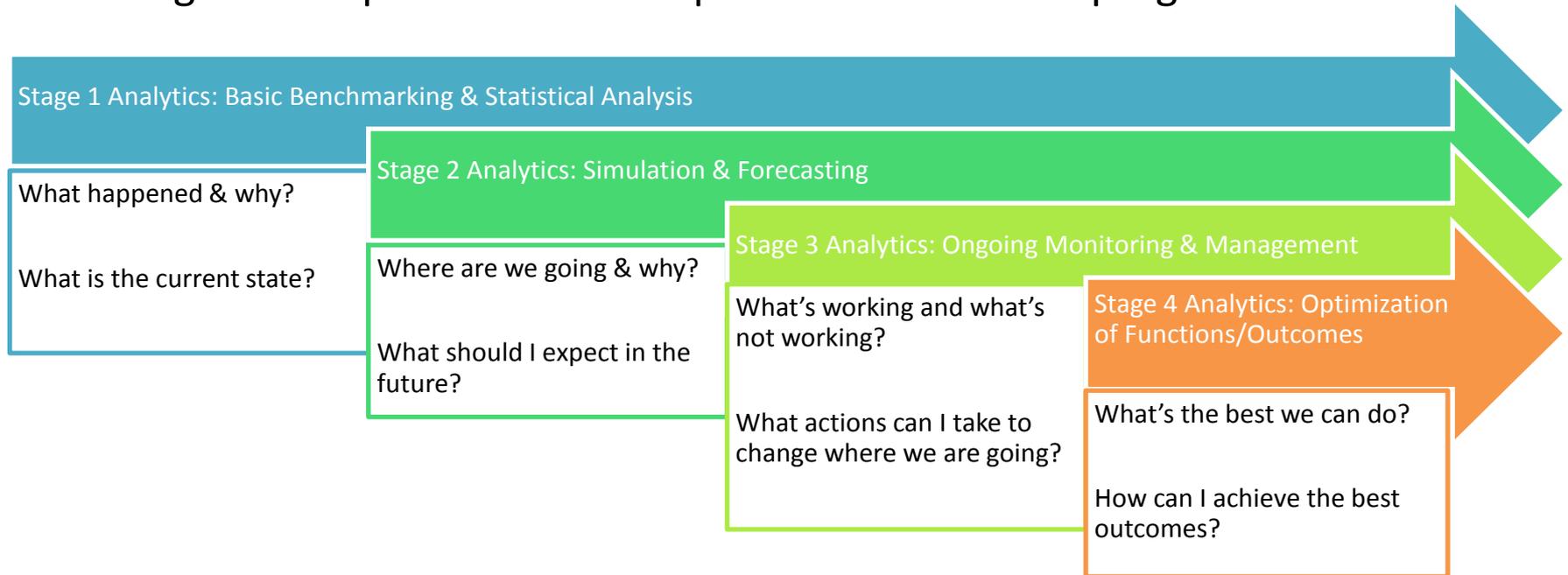
- 1) Risk Adjustment/Predictive Analytics
- 2) Dynamic Patient Care Profile
- 3) Electronic Clinical Quality Measurement Reporting and Storage Solution
- 4) Electronic Obstetrics Authorization & Initial Assessment Form
- 5) Increased Ambulatory Connectivity and Support

#1: Definitions

- **Risk assessment**
 - A systematic process or tool used to evaluate an individual's health risks and/or quality of life
- **Predictive modeling**
 - A process used in predictive analytics to create a statistical model of future behavior. Predictive analytics is an area of data mining concerned with forecasting probabilities and trends
- **Risk adjustment**
 - An actuarial tool used to calibrate payments to health plans or other stakeholders based on relative health of the at-risk population

#1: Measuring Past vs. Predicting Future

- Could we leverage predictive analytics—including predictive models—to design and implement more impactful health home programs?



- With predictive analytics, we can focus on what we can control (the future), rather than focusing on what we cannot control (the past).
- Predictive analytics allow us to be **proactive**, instead of **reactive**.

#1 – Potential Role in Health Homes

Identify

- **Identify “high-tier” cohort for the program**
- Estimate the greatest opportunities to bend the trend in morbidity, utilization, and medical cost patterns

Measure/Monitor

- **Measure the program’s past and future value and ROI**
- Monitor programs impact in short- and long-term morbidity, utilization, and medical cost trends

#1: Tools Offer a Range of Features

Feature / Capability

Identifies individual conditions for a given beneficiary

Quantifies condition prevalence within a population

Estimates medical cost trends (long-term vs. short-term)

Addresses the unique needs of Medicaid beneficiaries in the tool

Assigns recipients to distinct health status classification (customizable to estimate utilization/preventable utilization and project trends)

#2: Patient Care Profile

- “On-demand” document made available to providers and care managers that presents an aggregation of critical information for a particular patient.
 - Single access point to a critical mass of patient information that will help support better care coordination.
 - Includes information not traditionally included in other clinical documents (e.g., episodic clinical documents), such as:
 - Identification of Care Team Members
 - Diagnosed Chronic Conditions
 - Housing Status
 - Risk Score
- Initially accessible through a portal system.
 - In subsequent phases, the Care Profile can be enabled to allow EHRs to call for the document directly within the system.

#2: Dynamic Care Profile – Mock-Up

PATIENT CARE PROFILE VIEW - MOCK UP

PATIENT DEMOGRAPHICS			RISK STRATIFICATION			ATTRIBUTED PROVIDER(S)/PAYER(S)								
Name : John X. Snith			Risk Type	Score	Band	Organization	POC	Phone						
DOB : 04/09/1954			Redmission	51	Medium	Bread for the City	Dr. X	2025556688						
Address: 3700 Massachusetts Ave NW, Washington DC, 20016			Re-ED visit	70	High	MFA	Dr. O	2025679876						
Phone #1: 202-444-7777						Trusted Health Plan		2026453546						
Phone#2: 202-555-3232														
CARE MANAGEMENT PROGRAM(S)														
Care Plan available	Organization	Care Manager	Phone Number	Email	Type	Short / Long term	Start Date	End Date						
Yes, click HERE to view	Trusted Health Plan	Ms. Mary Von	443-410-4100	mvon@hcc.org	Diabetes control	Long term	2/1/2014	2/1/2016						
Yes, click HERE to view	Providence Hospital	Sally Brown	443-555-8787	sallyomailey@cfmp.org	COPD	Short	3/1/2014	6/1/2014						
CHRONIC CONDITIONS		MEDICATIONS		IMMUNIZATIONS		HOUSING STATUS								
Type	Date	Type	Date	Type	Date	Status	Date							
COPD	3/21/2008	Metformin	2/15/2014	MMR	6/6/2015	Permanent Supportive Housing	10/10/2010							
Diabetes	8/22/1982	Levalbuterol	6/11/2009	Influenza	11/11/2014									
		Insulin	11/23/1985											
ENCOUNTER NOTIFICATION(S)														
ER VISIT(S) [LAST 120 DAYS]						OTHER PROVIDER(S) [LAST 120 DAYS]								
Date	Facility	Visit Type				Date	Facility	Visit Type						
6/15/2014	MFA	ER				6/15/2014	MFA							
7/2/2015	Bread for the City	ER				7/2/2015	Bread for the City							
HOSPITAL VISIT(S) [LAST 120 DAYS]														
Date	Facility	Visit Type												
6/15/2014	Providence Hospital	Inpatient												
7/2/2015	Howard University Hospital	OBV												
MEDICAID CLAIMS DATA FROM LAST 12 MONTHS (MM-DD-YYYY - MM-DD-YYYY)														
Patient Total at All Hospitals Total Charges \$423,868 Total Visits 35 Total Hospitals 11 Zip on Last Visit 20001 Primary Payer Medicaid fee for service Secondary Payer Other			Conditions Chronic Obstructive Pulmonary Chronic: Asthma Chronic: Chronic Kidney Disease Chronic: Diabetes Chronic: Heart Failure Chronic: Hyperlipidemia Chronic: Hypertension Mental Health: Depression			Case Mix Data Through: August 2015								
Admit Date	Discharge Date	Hospital Name	MRN	Visit Type	IP Re admit	Pqi	DRG	DRG Description	SOI	Dx1Description	Dx1	Dx2	Dx3	Dx4
9/25/2015	9/25/2015	Hospital 1	123456789	IP	Yes	Yes	048	PERIPHERAL, CRANIAL & AUTONOMIC NERVE DISORDERS	3	"DIAB NEURO MANIF TYPE II"	25060	40391	3441	5856
9/25/2015	9/25/2015	Hospital 2	987654321	OBV		Yes				"DIAB NEURO MANIF TYPE II"	25060	5363	5856	V4511
9/25/2015	9/25/2015	Hospital 1	123123123	ED						"ABDOM PAIN GENERALIZED (Begin 1954)"	78907	7295	25000	V5867
9/25/2015	9/25/2015	Hospital 3	123456789	IP	Yes		460	RENAL FAILURE	3	"HYP RENAL NOS W REN FAIL (Begin 1985)"	40391	2761	4108	5363
9/25/2015	9/25/2015	Hospital 1	987654321	OBV		Yes				"DIAB NEURO MANIF TYPE II"	25060	5363	V58	40391
9/25/2015	9/25/2015	Hospital 3	987654321	OBV						"GASTROPARESIS (Begin 1994)"	5363	3441	40391	5856
9/25/2015	9/25/2015	Hospital 1	654321	IP	Yes	Yes	048	PERIPHERAL, CRANIAL & AUTONOMIC NERVE DISORDERS	3	"DIAB NEURO MANIF TYPE II"	25060	40391	3441	2761

#3-5: Other Potential HIE Projects

- ***eCQM Reporting and Storage Solution***
 - Facilitate mandatory reporting criteria and prepare hospitals/practices for future APM opportunities
- ***Electronic OB Authorization Form***
 - Further engage pregnant beneficiaries in prenatal care and create infrastructure for future specialized registries
- ***Increased Ambulatory Connectivity and Support***
 - Support current and future care coordination services, including baseline clinical data exchange and quality measurement