



Maryland Health Services Cost Review Commission

Analytic Tools for Current Use

July 9, 2015

Agenda

- Regional Partnership requirements
- Overview of Analytic Tools available now
 - Data Report Inventory
 - Online Reports
- Practical Application to Regional Partnerships
- Next steps
 - FAQs – Webinar follow-up and RP requests
 - Upcoming Webinar schedule, feedback from RPs

Recommended Core Outcome Measures for Regional Partnerships

Measure	Definition	Source	Resource	Population(s) Expected
Total hospital cost per capita	Hospital charges per person	HSCRC Casemix Data	CRISP RP Tool	All population for covered zips, high utilization set, target population if different, each by race/ethnicity
Total hospital admits per capita	Admits per thousand person	HSCRC Casemix Data	CRISP RP Tool	
Total health care cost per person	Aggregate payments/person	HSCRC Total Cost Report	Future, HSCRC Report	
ED visits per capita	Encounters per thousand	HSCRC Casemix Data	CRISP RP Tool	
Readmissions	All Cause 30-day Inpatient Readmits (see HSCRC specs)	Regional Readmission Reports (CRISP)	CRISP RP Tool	
Potentially avoidable utilization	Total PAU Charges/Total Charges	PAU Patient Level Reports	Future, Addition to CRISP RP Tool*	
Patient experience	TBD			
Composite quality measure	TBD			

*HSCRC has produced a zip code level PAU file for RPs. File available for those with data agreement with HSCRC, please contact Oscar Vera.

Recommended Core Process Measures for Regional Partnerships

Measure	Definition	Source	Resource	Population(s) expected
Use of Encounter Notification Alerts	% of inpatient discharges that result in an Encounter Notification System alert going to a physician	CRISP	CRISP Report	All population for covered zips, high utilization set, target population if different
Completion of health risk assessments	% High utilizers with <u>completed</u> Health Risk Assessments	Partnership		High utilization set, target population if different
Established longitudinal care plan	% of High Utilizers Patients with completed care	Partnership		High utilization set, target population if different
Shared Care Profile	% of patients with care plans with data shared through HIE in Care Profile	CRISP	Future, CRISP Report	High utilization set, target population if different
Portion of target pop. with contact from assigned care manager	% of High Utilizers Patients with contact with an assigned care manager	Partnership		High utilization set, target population if different

How Today will Help You with your Plans

- There are many reports available to you
- Two Levels of Data Needed:
 - Population Health Data: Assist with planning initiatives, understanding needs of population, performance, etc
 - Patient-Level Data: Needed for implementation of initiatives.
- Provide an overview of the reports and data tools available to you now and in the future.
- Discuss different ways data resources can be used in planning efforts.

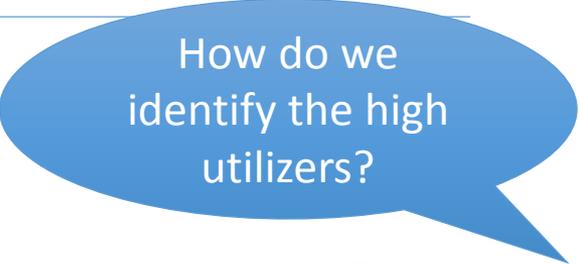


Data Report Inventory Overview

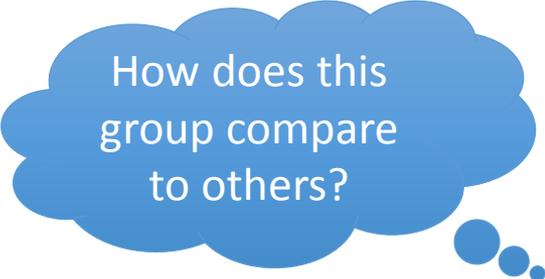
- Reports and Data Resource Inventory developed by HSCRC and CRISP
 - Report Description, Unit of Measure, Timeframe, How to Access
- Reports/Resources
 - Publically available
 - Available to Credentialed Users
 - Available to Pilot Users
 - Upcoming Release
- Basecamp will have list of credentialed hospital users
- Questions about accessing reports, reference updated contact list

Demonstration: Tableau Resource for Regional Partnerships Demonstration

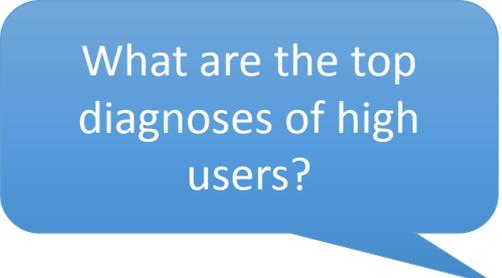
- Tableau Dashboards developed to help users with planning and understanding the needs of their population
- Two sets of dashboards: Inpatient (with Observation Stays 24 hour+) and Emergency Department
- Dashboards allow users to select from several drop down menus to view the data cuts:
 - Geographic - Regional Partnerships (zip codes from application documents), Zip code, Counties
 - High utilizer
 - Calendar year



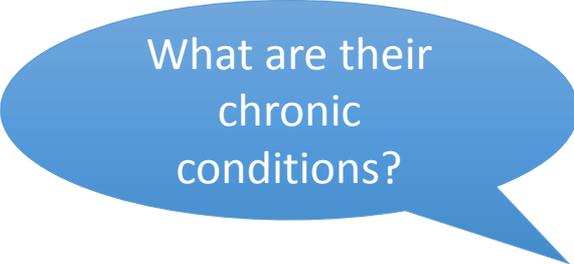
How do we identify the high utilizers?



How does this group compare to others?



What are the top diagnoses of high users?



What are their chronic conditions?

Regional Partnership Dashboards Accessible to Credentialed Users

- Credentials sent out to the Regional Partnerships Users
- <https://reports.crisphealth.org>



Sign In

idp.crisphealth.org

Type your user name and password.

User name: Example: Domain\username

Password:

Regional Partnership Tableau Dashboards

Home > Regional Partnership

Regional Partnership

PROJECT

Workbooks 5 Views 10 Data Sources 0 Permissions Details

0 selected Sort by: Name (A-Z)

General Filters

Owner: [Dropdown]

Tag: [Dropdown]

Modified on or after: [Dropdown]

Modified on or before: [Dropdown]

Only my favorites

Only my recently viewed

Has an alert

CMS Medicare Chronic Condition Data - Conditions by

This dashboard displays a map of the region with color-coded areas representing different chronic conditions. Below the map is a bar chart showing the count of conditions for each region.

CMS Medicare Chronic Condition Data - Prevalence in

This dashboard features a map showing the prevalence of chronic conditions across the region. Below the map is a table with columns for various metrics and a color-coded legend.

Individuals with 3 or More Inpatient Discharges in FY2014

This dashboard contains a horizontal bar chart showing the number of individuals with three or more inpatient discharges in fiscal year 2014, broken down by region.

RP - MD ED Disease

This dashboard includes a map of the region and a bar chart showing data related to emergency department (ED) diseases in the Regional Partnership (RP) area.

RP - MD Inpatient

This dashboard displays a map and a bar chart showing inpatient data for the Regional Partnership (RP) area.

Questions/Discussion



Patient-Level Data

- Two priorities: planning support and implementation tools
 - Implementation to be developed in parallel with planning efforts
- CRISP developing reports to support provider care coordination efforts
- Tools provide a comprehensive (all hospitals) view of hospital encounters
- CRISP will specifically credential users for the purposes of care coordination
 - Similar to the process for credentialing users for CRISP clinical Portal
- CRISP leveraging Patient Panels developed for the purposes of Encounter Notification Service (ENS) for reporting
- Data Sharing and Consent Issues policy updates



All Patient Report

- Provides summary data for each patient
 - Charges
 - Number of visits
 - Total visits and charges across all hospitals
- Filters enable a user to focus on a specific population
 - Filter on dates, visits, readmissions, charges, zip codes, MRN, primary payer and age
 - Filter on other hospital used to find patients going to multiple facilities

All Patient Report

Patient Report Summary

Hospital: 

EID	Total Charges	IP Discharges	OBV Visits	ER Visits	Total IP Discharges/ OBV/ED	Readmiss..	Age	All Hospital Visits	All Hospital Charges
	\$337,623	1	0	1	1	0	52	9	\$550,832
	\$301,700	1	0	1	1	0	59	2	\$303,131
	\$176,981	3	2	3	3	3	71	6	\$208,909
	\$176,353	1	0	1	1	1	62	5	\$396,042
	\$174,288	1	0	1	1	0	84	4	\$180,444
	\$158,651	2	1	2	2	1	56	3	\$160,105
	\$158,152	0	1	1	1	0	74	1	\$158,152
	\$156,203	1	0	0	1	0	31	6	\$212,799
	\$140,724	1	1	1	1	0	53	6	\$192,506
	\$134,879	1	1	2	2	0	70	2	\$134,879
	\$132,166	1	0	3	3	0	58	67	\$277,284
	\$125,412	1	1	1	1	1	65	7	\$503,697
	\$125,017	3	2	1	5	2	58	6	\$156,796
	\$120,637	1	0	1	1	0	84	3	\$132,328
	\$118,716	1	0	1	1	0	70	1	\$118,716
	\$118,179	3	0	0	3	2	58	3	\$118,179
	\$116,514	1	0	1	1	0	78	1	\$116,514
	\$114,745	1	0	0	1	0	54	3	\$116,980
	\$113,277	3	1	5	5	3	62	12	\$320,591
	\$111,163	4	1	6	6	4	52	26	\$296,717

Total Charges



PAU Charges



Visits Total



Visits IP



Visits ER



Visits OBV



Readmissions



Through DOS

Hospitals Used

Age



Primary Payer

DischargeLTC

Zip

MRN

Level 2 Reports

- Selecting an EID on the All Patient Report brings up more detail on each patient
 - List of all patient visits in the last 12 months across all hospitals including information on
 - Dates of service
 - DRGs
 - Diagnoses
 - Primary procedures

Level 2A – By Hospital and Service Type

Inpatient Services

Through DOS

HospitalName	MRN	From DOS	Through DOS	Readm..	APRAPG	DRG Description	SOI	PQI	Primary Dx	Dx2	Dx3	Dx4
Bon Secours		/2014	/2014	Yes	140	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	3	1	49322	5849	486	2875
		/2014	/2014	Yes	221	MAJOR SMALL & LARGE BOWEL PROCEDURES	4	1	56983	0389	5849	2875
		/2014	/2014	Yes	223	OTHER SMALL & LARGE BOWEL PROCEDURES	3	1	56969	262	2869	4589
		/2014	/2014	Yes	813	OTHER COMPLICATIONS OF TREATMENT	3	1	99813	7100	78959	2752
Saint Agnes Hospital		/2014	/2014	Yes	207	OTHER CIRCULATORY SYSTEM DIAGNOSES	3	1	4589	5849	2762	2869

Observation Services

HospitalName	MRN	From DOS	Through DOS	Readmit	Primar..	Primary Dx Description	Proc ..	Procedure Description	Dx2	Dx3	Dx4	Dx5
Bon Secours		/2014	/2014	Yes	99813	"SEROMA PROC CX (Begin 1996)"	3897	"CV cath plcmt w guidance (Begin 2..	7100	78959	2752	5601

ED Services

HospitalName	MRN	From DOS	Through DOS	Readm..	Primary Dx	Primary Dx Description	Proc Code	Procedure Description	Weekday of From DOS	Dx2	Dx3
Bon Secours		/2014	/2014		486	"PNEUMONIA- ORGANISM NOS"			Thursday	5733	4019
		/2014	/2014		49121	"OBS CHR BRNC W ACT EXA (Begin 1..			Tuesday	5733	4019
		/2014	/2014		56989	"INTESTINAL DISORDERS NEC"			Sunday	V443	5733
		/2014	/2014		99813	"SEROMA PROC CX (Begin 1996)"			Tuesday	78959	515
University of ..		/2014	/2014		486	"PNEUMONIA- ORGANISM NOS"			Thursday	51911	4019

Level 2B – By Date of Service

Level 2: Sorted by From Date of Service

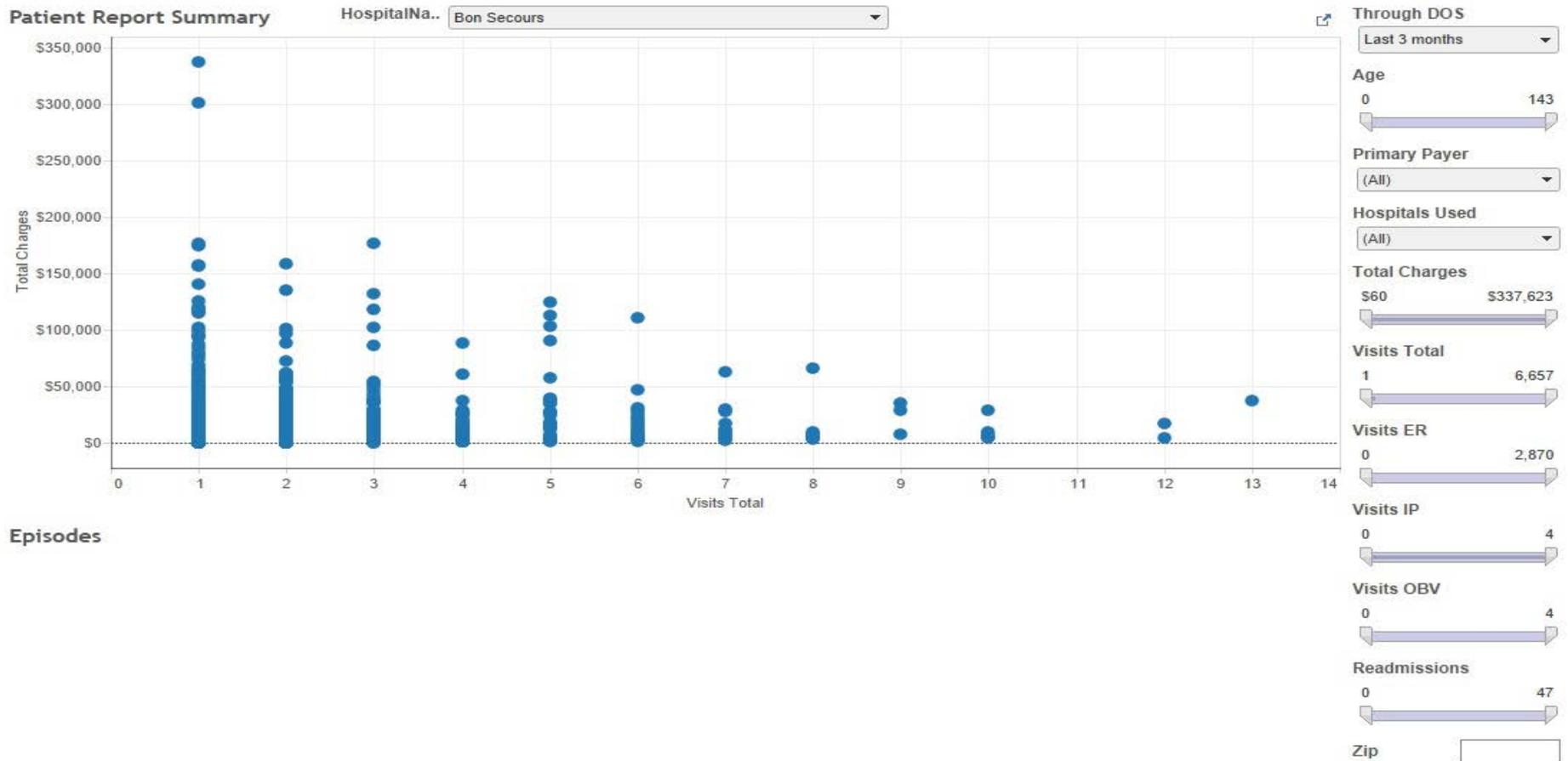
Through DOS

From D..	Through DOS	HospitalName	MRN	VisitT..	ER	OBV	Rea..	APRAPG	DRG Description	SOI	PQI	Primary ..	Dx2	Dx3	Dx4
/2014	/2014	Bon Secours		OP	1	0		00573	Null			486	5733	4019	7100
/2014	/2014	Bon Secours		IP	1	0	Yes	140	CHRONIC OBSTRUCTIVE PULMONA..	3	1	49322	5849	486	2875
/2014	/2014	Bon Secours		OP	1	0		00065	Null			49121	5733	4019	7100
/2014	/2014	University of Maryland		OP	1	0		00573	Null			486	51911	4019	7100
/2014	2014	Bon Secours		IP	1	0	Yes	221	MAJOR SMALL & LARGE BOWEL PR..	4	1	56983	0389	5849	2875
/2014	/2014	Saint Agnes Hospital		IP	1	0	Yes	207	OTHER CIRCULATORY SYSTEM DIA..	3	1	4589	5849	2762	2869
/2014	/2014	Bon Secours		OP	1	0		00624	Null			56989	V443	5733	4019
/2014	/2014	Bon Secours		IP	1	0	Yes	223	OTHER SMALL & LARGE BOWEL PR..	3	1	56969	262	2869	4589
/2014	2014	Bon Secours		OP	1	0		00300	Null			99813	78959	515	7100
/2014	/2014	Bon Secours		IP	1	1	Yes	813	OTHER COMPLICATIONS OF TREAT..	3	1	99813	7100	78959	2752

Episode Dashboard

- Patients are graphed by the number of visits and total charges
- Selecting one or multiple patients brings up their timeline of visits across all hospitals

Episode Dashboard – No Selections

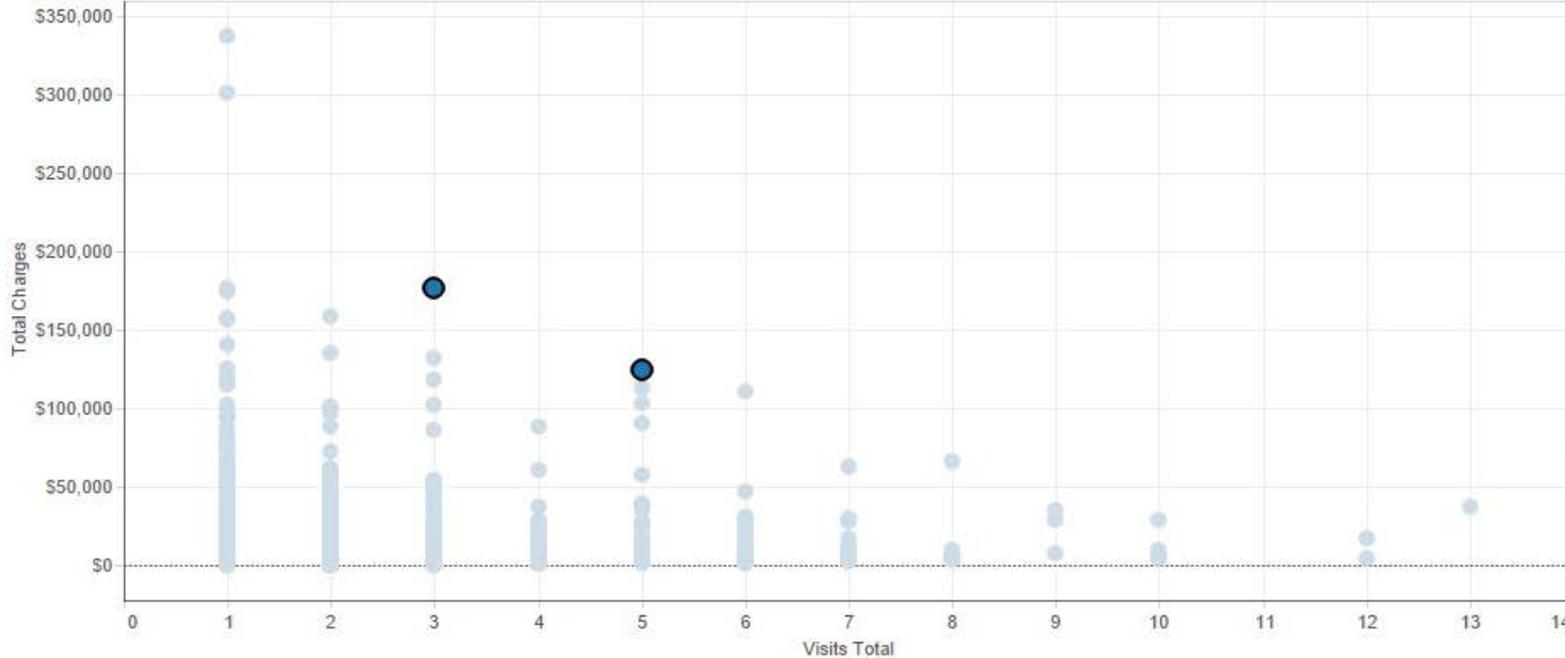


Episode Dashboard – 2 Patients Selected

Patient Report Summary

HospitalNa..

Through DOS



Age

Primary Payer

Hospitals Used

Total Charges

Visits Total

Visits ER

Visits IP

Visits OBV

Readmissions

Zip

Episodes

EID

From DOS

"COMP-REN DIALYS DEV/GRFT (Begin 1989)"

"COMP-REN DIALYS DEV/GRFT (Begin 1989)"

"MALFUNC VASC DEVICE/GRF"

Visit Type

- 1 ED
- 2 OBV
- ◆ 3 IP
- ◆ 4 Readmit

Color Legend

- Current Hospital
- Other Hospital

All Patient Report Next Steps

- Add Chronic Conditions Indicators
- Add some preset patient filters to facilitate population selection
- Develop summary views and statistics to present the overall status for patients of interest



Questions/Discussion

Next Steps

- Report Inventory on Basecamp
 - Will be updated with other resources
 - Will follow-up with resources available through others, for example VHQC
 - Credentialed users list on Basecamp
- Need input on reports and resources needed by regional partnerships
- Next webinars are:
 - July 23 – CRISP, activities list, tools to support transformation, e.g., care profiles and health risk assessments
 - August 13 and August 27: Topics TBD