

HERC/Pathways

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Regional Health Information Exchange (HIE) serving Maryland, and West Virginia and the District of Columbia.

Vision: To advance health and wellness by deploying health information technology solutions adopted through cooperation and collaboration.



	Maryland
Live hospitals	All acute care hospitals
Provider Orgs using ENS or Query Portal	1,350+
Unique patients in our index	+17.9 million
Patient searches	+363,000/month (337k found)
Encounter alerts sent	+2.5MM/month (4MM 6/2019)
PDMP Queries	2.5MM/month

CRISP Data 101

- Many data sources (100s)
- Mapped to single patient record using our Master Patient Index
- For data to be effectively used for reporting:
 - 1. CRISP Participant must choose to share data with CRISP
 - 2. CRISP and Participant policies allow for specific data use
 - 3. Data must be discrete (for reporting)
 - 4. Data must be coded
 - 5. Data must be stored
- Can combine with publicly available, deidentified data (BRFSS)

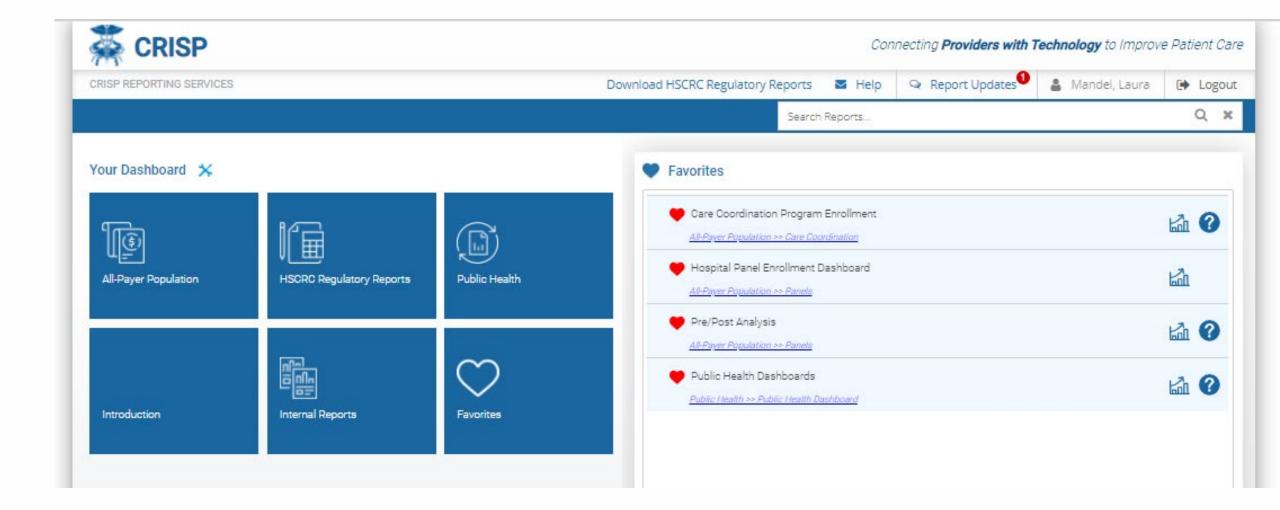
Type of source	Data in source	Notes
All Payer Hospital Claims data	Encounters, diagnoses, cost	High data coverage and quality (hospital only)
Medicaid/Medicare Claims data	Encounters, diagnoses, pharmacy	High data coverage and quality, special approval required
Direct Source Data- Admit/discharge info, clinical documents, labs	Encounters, diagnoses, notes, labs	Variable data coverage and quality
Patient Panels	CRISP Participants send in participating patients	Not all providers included



- Support reporting and analytics for the CHRC
- Provide access to hospital claims-based data dashboards to applicants for planning purposes
- Provide data dashboards to grantees for outcome and program monitoring
- Deliver data to CHRC and evaluators



CRISP Reporting Services



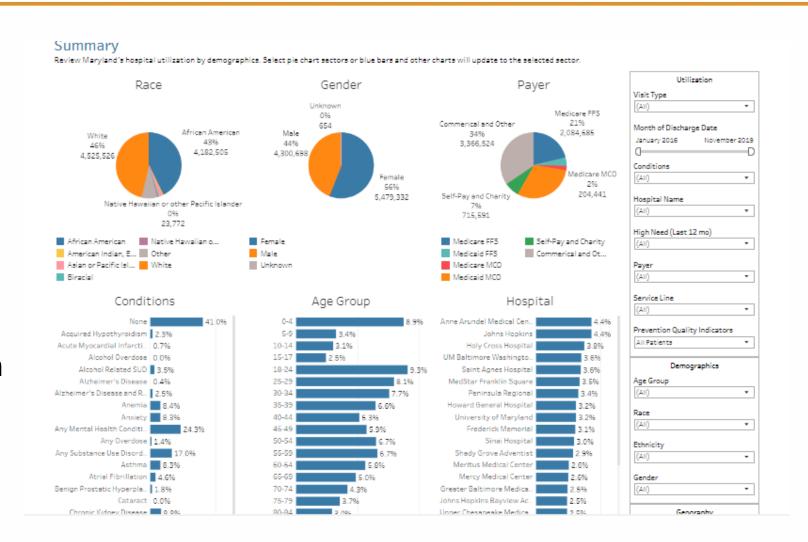


Data Source:

CaseMix – hospital claims based data

Examples of Key Questions:

- What is age distribution of diabetes hospitalizations in the county?
- What is the racial makeup of teenagers experiencing asthma at St Agnes?





Public Health Dashboard (con't)

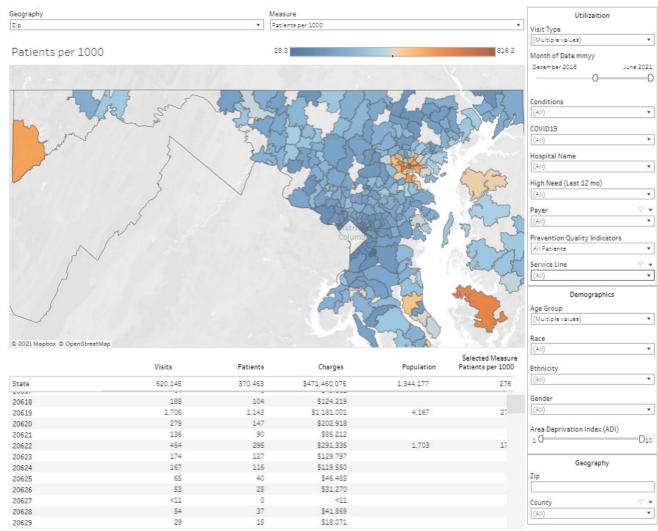
Question:

 Which zip codes in the state have the most ED pediatric patients per population?

Public Health Dashboard

Utilization Map

The utilization map allows you to visualize various quality, financial, and utilization measures by county or zip code for your population of interest. For example, you can visualize the ED encounters per 1000 for pediatric asthma by zip code to identify areas that are most impacted.





Public Health Dashboard (con't)

Questions:

- What are the outcomes for the geography of interest before and after an intervention time period?
- What are the racial disparities in diabetes hospitalizations in a county?

Public Health Dashboard Populations Comparison

Define a population of interest (primary) and compare it to another population. Possible analyses include comparing one calendar year to another, comparing a zip code or county to the stat average, comparing different demographics or patients with different chronic conditions.

rimary Population		Utilization
Tilliary Fopulation		Month of Discharge Date
sits Total	12,933,073	January 2016 June 2021
sits per 1000	2,154	0
atients	3,922,096	Visit Type (All)
atients per 1000	653	
eadmit Rate	11.84%	Conditions (All)
QI Rate	10.84%	
OS Total	25,163,835	COVID19 (All)
OS per Visit	1.9	(AII)
narges	\$63,444,886,267	Hospital Name
narges per Capita	\$10,568	(AII)
narges per Visit	\$4,906	High Need (Last 12 mo)
narges per Patient	\$16,176	(AII)
ppulation	6,003,435	Payer
		(AII)
		Service Line
		(AII) v
		Prevention Quality Indicators
		All Patients ▼
		Demographics
		Age Group
		Race (AII)
		Ethnicity
		(All)
		Gender

Comparison Popul	ation	Utilization
/isits Total	12.933.073	Month of Discharge Date January 2016 June 2021
/isits per 1000	2.154	
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		(AII)
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		(AII) v
		Ethnicity
		(AII) ▼
		Gender
		(All)



Data Source:

CaseMix

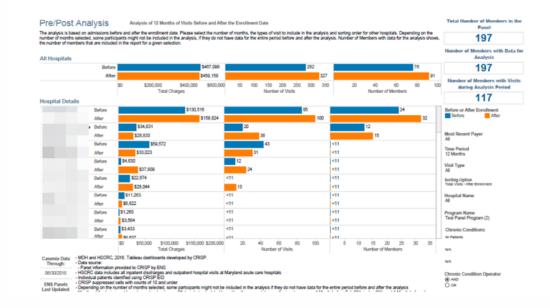
Key Questions:

 How has my program impacted the cost and utilization of patients it reaches before and after enrollment?



2. Panel Analysis

The panel analysis tab breaks down the pre and post charges, visits, and unique members by hospital. For this tab, you will need to use the filter 'Time Period' to select the time period you would like to view. There are also additional filters for most recent payer, visit type, sorting option, hospital name, and up to 3 chronic conditions.





Example of Program Reporting: SIHIS Dashboard

- Provide a simple dashboard to support Maryland Department of Health monitor progress towards SIHIS goals
- Many population health SIHIS goals use surveillance data that are lagged in reporting
- Identify proxy measures that are directionally indicative of the official SIHIS goals, but use more timely data sources



Key Elements of the SIHIS Dashboard

- The dashboard will measure the percent change from the 2018 baseline to present
- Where possible, the dashboard will include comparisons to national benchmarks or stated SIHIS targets
- Breakouts by race and ethnicity will support monitoring health equity



[Measure of Interest] Percent Change from Baseline and Comparison to National Average

	2018 Baseline (A)	May 2020- April 2021 (B)	Percent Change (B-A)/A	National Comparison Change
Rates/ 100k Population	37.3	41.1	10.4%	30.5%
Total Count	2,253	2,541	12.8%	32.1%

[Measure of Interest] by Race and Ethnicity Percent Change from Baseline and Disparity Index

Race/Ethnicity	2018 Baseline	Current Year (most recent rolling 12)	Percent Change	Disparity index (Race : NH White)
NH White	45.5	48.1	5.7%	1.0
NH Black	43.3	53.7	24.1%	1.1
Hispanic	8.1	14.7	81.5%	0.3
NH Other	8.0	5.7	-28.8%	0.12
Statewide Total	37.3	41.1	10.4%	

[Measure of Interest] Over Time

2,017

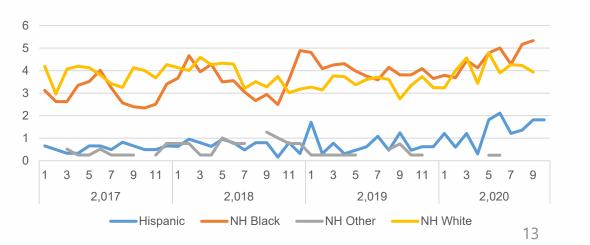




2,018

2,019

2,020





Examples of recommended outcomes measures possible in existing CRISP data

- Outcome measures could align with SIHIS goals
- Outcome measures could be pulled out into a dashboard for grantees
 - Pediatric ED asthma visits
 - Diabetes Hospital visits (PQI 93)
 - Severe maternal morbidity
 - Opioid overdoses
 - Discharges
 - Readmits



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