## Panels Reports



# Patient Total Hospitalization (PaTH) User Guide

#### By CRISP, last updated 8/17/2021

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# Patient Total Hospitalization Dashboard (PaTH)

#### Background

The Patient Total Hospitalization Report (PaTH) was developed to provide hospital and ambulatory users a report to view cross hospital charge data for patients in the last 36 months. PaTH provides an overview of hospital utilization and charges. Users can also drilldown to a specific patient population with the patient condition, demographic, and hospital utilization filters. Users can generate patient lists using the report's filterto view hospital charges with an option to export the data. Users can additionally create programs based on their CEND Panels in PaTH or Case Mix Program Loader, and users will be able to view the programs in PaTH and Pre/Post.

#### Use Cases

- 1. Study your overall population by geographic locations and/or chronic conditions, by age group.
- 2. Load a panel of patients who have received support from hospital and/or community programs (or combined programs):
  - a. To study how their costs and utilization compare to the overall population in # 1.
  - b. To study the population of patients who have received a program or service(s)
- 3. Load a panel that represents patients who were referred to a program or service and compare it to those who actually participated in the service (# 2 above).
- 4. Use the PaTH export to further study and analyze patients in any of the above panels.
- 5. Remember that panels loaded in PaTH can also be loaded/used in the Pre/Post Report which also has powerful data to show utilization, costs and types of visits before and after a program/service was provided. Pre/Post also has different data in the export, including whether the visits were pre or post enrollment date, PAU, PQI, Readmission Index Visit, Readmission Visit start date and various visit-level diagnoses

#### Data Source

The data used in this report includes charges from all Maryland hospitals (referred to as Case Mix data). All Maryland hospitals provide their Case Mix data to the HSCRC which includes all-payer financial and patient-level administrative information for all inpatient and emergency visits, observation visits greater than 24 hours, and outpatient visits that occurred in regulated space. This report does not include out-of-state visits for Maryland residents and does not include charges for outpatient visits that occurred in non-regulated space.





### Measures

Definition
Count of all Maryland hospital Inpatient, Observation, and/or ED
visits
Count of unique patients
Average charges per patient
Average charges per visit
Average number of visits per unique patients
Area Deprivation Index is based on a measure created by the Health Resources & Services Administration (HRSA) over three decades ago, and has since been refined, adapted, and validated to the Census Block Group neighborhood level by Amy Kind, MD, PhD and her research team at the University of Wisconsin-
Madison. It is utilized as a proxy measure for socioeconomic status to capture patient-level social risk factors not currently available in clinical information systems
Total all-payer charges for visits
Total number of visits at hospitals
Number of unique hospitals visited
The <u>Prevention Quality Indicators</u> (PQIs) are a set of measures developed by the Agency for Healthcare Research and Quality (AHRQ) that can be used with hospital inpatient discharge data to identify ambulatory care sensitive conditions in adult populations



### Tableau PaTH Access/Card

*Step 1.* To access the All-Payer Population tile, login to the CRISP Reporting Services Portal by visiting <u>https://reports.crisphealth.org</u>. Once in the CRS Portal, a dashboard of different blue report "cards" will appear. Availability of reports is based on the access of the user. Clicking the card named "All-Payer Population" will bring up the available reports for this category. The following screenshots represent the user's workflow.



*Step 2.* By clicking the Tableau icons as shown below, you will either access the PaTH Summary or PaTH Details Report. Users with PHI-level access to this report will have the PaTH Details report option. Users who can only see the PaTH Summary report (and not the PaTH Details report) are configured for summary level access (cannot see PHI reports).

The question mark icon will allow you to access documentation such as user guides and data dictionaries where applicable.

Рор	oulations & Programs	Reports 🗴	Patient Total Hospitalization (PaTH)	
Þ	All-Payer Population	Patient Total Hospitalization (PaTH)	PaTH Details	1
-	Medicare Population	Care Alerts Overview	PaTH Summary	1
17	HSCRC Regulatory Reports	Care Coordination		
		Case Mix Program Loader		
Q	MDPCP Reports	Commercial Benchmarking Data		
	Internal Reports	Executive Dashboard		



On each Tableau dashboard, there are menu options for the user to select, which are listed below. Additionally, the Tableau report contains multiple dashboards. The available dashboards are listed at the top.

Source MRN Type: Hospital:	Program:
Hospital MRN    (Old) John  Summary PaTH Patient Detail	is Hopkins Oncology - 210904 🔻 ALL 👻 Apply 3 Refresh D Revert III Pause 🖨 Print 🗹 New Program
Summary Farm Facility Detail	
Menu Option	Description
Refresh	The refresh button is used to refresh the data source used by the Tableau report
Revert	The revert button restores the report to its default view, undoing all user selections and/or filtering
Pause/Resume	To save time when setting multiple filters, use the Pause button to suspend the report refresh, select filters, then select Resume, which applies the filters and refreshes the report. By pausing the layout update, the report is not reloaded for <u>each</u> filter change.
Help	This button opens the Tableau user guide
Print	This button generates a PDF from the selected tabs in Tableau. A print menu with various export options is provided. The user can print multiple tabs with the desired filters and has options to adjust the page scaling, paper size, and paper orientation.
Excel/Crosstab	The Excel or crosstab option allows users to export a dataset into an Excel workbook or CSV file. Note that Excel extracts may provide additional columns that may not be present in the Tableau workbook that is displayed on the screen. Excel exports can be done using no filters (to study a population or panel), or the user can set filters and export to excel to study a subset of a population or panel.

#### Uploading a Program

#### **Program Loader**

Users can upload a program in two places.

1. The Case Mix Program Loader, located in the All-Payer Population report section, allows users to create programs in one central place. Users can view uploaded programs in both Pre/Post and PaTH reports.

### **Panels Reports**



2. The 'New Program' button in the PaTH Reports lets users upload programs. Users can view the programs uploaded in PaTH and Pre/Post. Although the same template is used to load PaTH and Pre/Post panels, *PaTH does not use the Program Enrollment date*. It just uses the MRN's and the source code.



#### Creating a Panel for PaTH or Pre/Post

Download the Template and keep a copy of the blank template for future panel creation. The template includes three columns: MRN, Source Code and Program Enrollment.

MRN – hospital MRN or CEND Panel MRN

Source Code – select your source code from *Table 1*. If you do not see your organization in the Source Code table, please contact <a href="mailto:support@crisphealth.org">support@crisphealth.org</a> and request creation of a source code.

Program Enrollment Date – the date the patient started the program (used by Pre/Post but not used by PaTH).



The patient MRN and Panel Source is based on the CEND Panel. The CEND Panel submitted by the provider is required to have either a hospital MRN or a practice specific MRN in order to provide each patient with a unique identifier.

#### Loading a Panel for PaTH or Pre/Post

Enter a Program Name. Since PaTH Summary Report panels will be displayed in the dropdown list alphabetically by name, it is helpful to use a standard naming convention that includes the name of the program and the start and end dates of the panel contents.

Select the Source MRN Type - Hospital MRN or CEND Panel MRN

Hospital - select the hospital or organization

Upload File – use browse to search for and find your file, select the file so that the name displays in the 'Upload File' box.

Check the attestation box.

Select 'Save' which will upload the panel for use in the PaTH or Pre/Post reports.

Case Mix Progra All use of this service identifiable informati information protecte	m Loader e must comply with laws and regulations which govern uses and disclosures of personally on, including but not limited to sensitive health information such as drug and alcohol treatment d by federal confidentiality regulations at 42 CFR Part 2.	
<ul> <li>New Program</li> </ul>	O Update Program	
Program Name:*		
Source MRN Type:	Hospital MRN	,
Hospital:*		,
Upload File:*	Browse	
	Download Template	
Note: Enrollment D	ate must be populated in the upload file for Program to be able to be used in Pre-Post report	
<ul> <li>By checking this</li> </ul>	box, the user attests to having a treatment relationship with all patients on the uploaded pan	el
Save		

AutoSave 💽 🛱 🥠 × 🖓 マ 🗢 Program_Template_20201208132607 ▼							
File	Home	Insert	Page Layout	Formulas	Data	Review	View
B2	×	: ×	$\checkmark f_x$				
	А		В	С		D	
1 MRN		Source C	ode	Program Enrolln	nent Date		
2							
3							
4							
5							
C							



Users can select filters in the report to focus the analysis on specific areas and populations.

Filter	Description
Service Provided From	Hospital where the visit occurred
Time Period	Visits in the respective period selected
Conditions	Applying filter will restrict dashboard to only patients with the specified chronic condition. Patients are flagged with chronic conditions if they have the appropriate diagnosis codes in Case mix data, using CMS Chronic Condition Warehouse methodology.
High Need	High Need: Patients with 3 or more IP discharges and/or OBS visits of 24+ hours during the last 12 months across all hospitals. Rising Need: Patients with 2 or more ED, IP, or OBS visits greater than 24 hours during the last 12 months across all hospitals. Excludes High Need Patients.
Visit Type	Inpatient (IP), Observation (OBS) visits greater than or equal to 24 hours, Observation visits less than 24 hours, and Emergency Department (ED) visits based on the Case Mix data as reported by hospitals
APR DRG or EAPG	The All Patient Refined Diagnostic Group and Enhanced Ambulatory Patient Group categorized visits based on reason for admission.
Primary Payer	The primary payer as reported by hospitals in the Case Mix data.
Secondary Payer	The secondary payer as reported by hospitals in the Case Mix data.
Age Group	Age grouped together as reported by hospitals in the Case Mix data.
Gender, Race, Ethnicity	Race, Ethnicity, and Gender as reported by hospitals in the Case Mix data.
Expired	Patient has died.

# **Report Sections**

- 1. Summary
- 2. PaTH
- 3. Patient Details



#### Summary

The PaTH Summary Report displays a summary chart of hospital utilization metrics. Users can drilldown to specific populations by applying filters.

A selection bar is located at the top of the PaTH Report. Here, users can select Hospital(s), CEND Panels, and/or Programs they have permissions to view. After selecting, the user must click 'Apply' to load the report accordingly.

Source MRN Type:	Hospital:		Select Program	n:		a		0.000	D .u . o
Hospital MRN	ALL, 210001 - Meritus M	edical Center, :	<ul> <li>ALL, djr_jhbr</li> </ul>	nc_hf_kpmr%che 💌	Apply	C Refresh D R	levert Pause	e Print	New Program
Summary PaTH Pa	tient Detail								
			Patient T	otal Hosni	talizations	Dashhoa	rd		
		Innati	ant (ID) Obse	puption (OPV)	and Emorgone	Department (	ED) Visita		
		Inpau	ent (IP), Obse	rvation (OBV), a	and Emergency	/ Department (i	ED) VISIUS		
ationto by Number o	IR ORV and ED Visit								
atients by Number of	or IP, OBV, and ED visit	5					ervice Provided From		Conditions
Hospital Name	IP, OBV, and ED Visits	Patients	Charges	Charges per Patient	Charges per Visit	Visits per Patient	(AII)	Select AND	OR
Grand Total	383,224	271,506	\$2,623,494,516	\$9,663	\$6,846	1.41	ime Barlod	AND	
Adventist Healthcare Fort W.	4,119	3,351	\$8,888,081	\$2,652	\$2,158	1.23	and 3 Months	•	
Adventist Rehab At White O	159	147	\$5,993,591	\$40,773	\$37,696	1.08	Cabi S mones	Condition 1	
Adventist Rehab Of Maryland	246	231	\$8,176,168	\$35,395	\$33,236	1.06	IP. OBV. and ED Utilization	All Patients	
Adventist White Oak Hospital	6,707	5,605	\$54,049,513	\$9,643	\$8,059	1.20	All	Condition 2	
Anne Arundel Medical Center	17,538	14,204	\$84,975,637	\$5,983	\$4,845	1.23		All Patients	
Atlantic General Hospital	5,332	4,327	\$14,793,893	\$3,419	\$2,775	1.23	IP, OBV, and ED Charges	Condition 3	
Calvert Health Medical Cent.	5,569	4,378	\$20,899,097	\$4,774	\$3,753	1.27	50 \$2,773,8	26 All Patients	
Carroll Hospital Center	7,286	5,749	\$38,236,207	\$6,651	\$5,248	1.27	0		
Christianacare, Union Hospi	5,837	4,305	\$23,232,642	\$5,397	\$3,980	1.36	IP, OBV, and ED Visits	Condition 4	
Convention Center	75	70	\$1,043,254	514,904	\$13,910	1.07	1 2	34 All Patients	
Doctors Community Medical.	8,201	6,692	\$40,516,162	\$6,054	\$4,940	1.23	0	D Chronic Co	unt
Encompass Health Rehabilit	311	295	\$9,250,734	\$31,358	\$29,745	1.05	IP Readmissions	0	
Frederick Health Hospital, Inc	11,936	9,350	\$54,405,801	\$5,819	\$4,558	1.28	0	• G	
Garrett County Memorial Ho	2,696	2,143	\$5,217,293	\$2,435	\$1,935	1.26	0	D Web Need	
Germantown Emergency Ce	2,513	2,168	\$2,169,261	\$1,001	\$863	1.16	Bedded Care (IP + OBV>=24hrs)	Across All N	ID Acute Care Hospi
Grace Medical Center	3,132	2,293	\$6,307,371	52,751	52,014	1.37	0	11 (AII)	
Greater partimore Medical C.	9,670	6,605	301,534,719	\$7,150	56,235	1.15	0	D Visit Type	
Holy Cross Hospital Germa	5 140	4 329	519 570 933	57,330	50,200	1.17	-	(AID	
Howard County General Ho.	10.819	9,323	546 320 361	p+, 321 54 989	55,000	1.15		0.00	
Johna Hopkina Bayview Me	9.405	7.585	\$87.015.098	\$11,472	\$9,257	1.24		APR DRG of	EAPG
Johns Hopkins Hospital	18.507	14,165	\$353.847.871	524.979	519.120	1.31		(All)	
Levindale	158	177	\$10,711,948	\$60,519	\$56.978	1.06		Primary Pay	er
Medstar Franklin Square	13.036	10.438	\$84,162,939	\$8.063	\$6.456	1.25		(AII)	
Medstar Good Samaritan	6.962	5.568	\$48,222,416	\$8.661	\$6.907	1.25		Secondary F	laver
								occontradity r	



The PaTH tab provides a chart of charges (y-axis) by number of inpatient, ED or OBV visits (x-axis). Each blue dot represents an individual patient.

The chart below the graph provides demographics and hospital utilization metrics for the patients that populate the graph. Here users can further understand their patient population.

Source MRN Type	e: Hospital: Select Program:							
Hospital MRN	ALL, 210001 - Meritus Medical Center, : Y ALL, djr_jhbmc_hf_kpmr/k	chei 💌 Apply	C Refresh	D Revert	II Pause	🔒 Print	Excel	R New Program
Summary Pa	TH Patient Detail							
	Patient Total H Inpatient (IP), Observation (	ospitalizatio DBV), and Emerge	ons Dashi ency Departm	ooard ent (ED)	Visits			
		IP, OBV, and ED	Visits	383.224	Service Provi	led From		Conditions
P, OBV, and E	D Visits and Charges re bubbles to view patient details	P-1			1000		* Selec	t AND/OR
ciect one of mos	e buodes to new patient details	Patients		271,506	Time Period		-	
	0				Last a Montris		Cond	ition 1
\$2,500,000-					IP, OBV, ar	d ED Utilization All	Cond	ition 2
					ID OBV and	ED Charpes	All Pi	tients
\$2,000,000	8				50	\$2,773.8	28 Cond	ition 3
					0		-D AI P	itients
\$1,500,000	°				IP, OBV, and	ED Visits	Cond	ition 4
5	<u>è</u>				1	2	All Pa	itients
\$1,000,000-	õ.				() IP Readmiss	ons	-D Chro	nic Count
					0		• G	
\$500,000-					G-Bedded Care	(IP + OBV>=24	-D High /	feed s All MD Acute Care Hospit
50	6 C	,		0	0		11 (AI)	
					0		-D Visit 1	VDR
	0 20 40 60 80 100 120 140 IP: 08V, and ED Viate	160 180	200 220	240			(Ail)	
	10.000						APR	IRG or EARG
Raw MRN	Hospital Name Charges ED Visits IP Visits OBV Visits ED	Visits Bedded Care	Age ADI	Charge	s Visits	Hospitals	(AI)	
	Atlantic General Hospital						Prima	ry Payer
	Encompass Health Rehabilt.						(AI)	
	Johns Hopkins Hospital						Secon	dary Payer
	Medstar Franktin Squarë Madstar St. Maw's Hoarital						(All)	
	Medatar Union Memorial Hos.						Age G	roup
Net	Shady Grove Adventist Hosp.						(AII)	
NULL	St. Agnes Hospital						Gende	f
	Tidalhealth Mooready Pavilion						(Ail)	
	Udameann Peninsua Hego						Race	
	UM-Prince Georges Hospital						(AII)	

*Note:* Users can select specific patients they want to view by clicking and dragging the mouse over the desired bubbles in the graph as shown below. The patients selected will appear in the chart below the graph.





Users can view all the patients in their select program in the Patient Detail tab. This tab provides more information on each patient visit (every row is a visit).

Users can also export the data within Patient Detail tab. The export includes extra columns such as several additional visit-level diagnoses.

ource MRN Type:	Hospital:		Select Program:						
Hospital MRN 👻	ALL, 210001 - Merit	tus Medical Center, i 🛛 👻	ALL, djr_jhbmc_hf_kpmrXche	- Apply	C Refresh	D Revert	II Pause 🖨 Prin	e 🖬	Excel 🔯 New Program
ummary PaTH Pa	tient Detail								
	Inpo	Pa atient (IP), Observ	atient Total Hos Patient Deta ation (OBV), and Emery	pitalization il Sorted by Raw gency Departmer	s Dashb MRN It (ED) Visits	oard at All MD	Acute Hospitals		
							Sort By		Conditions
			Hover over	More link on the right to	view diagnoses	escriptions	Raw MRN	•	Select AND/OR
MRN Admit Di	ischar Hospital Name	Visit Charge IP R	eadmit P APR DRG or EAPG	SOI Dx1Description	Dx1		Service Provided From	1	AND
Lineties and		Torne a	La Description				(Ai)	*	Condition 1
							Time Period		All Patients
							Last 3 Months	*	
							Raw MRN		Condition 2
							(AI)	٠	Condition 3
							IP. OBV. and ED Uti	lization	Al Patients
							All		Condition 4
							IP, OBV, and ED Charg	es	All Patients
							50	\$2,773,826	
							0	D	Chronic Count
							IP, OBV, and ED Visits		å
							1	234	<u> </u>
							IP Readmissions	0	High Need Across All MD Acute Care
							0	0	(AII)
						•	0	D	Visit Tune
							Bedded Care (IP + OB)	/>=24hrs)	(AII)
							0	11	400 000 or E400
							0	0	APR DRG OF EAPG
									(ver) Brimani Bauer
									(AII)
									1949
									Secondary Payer
									(MO)
									Age Group

## Table 1 – Source Codes

Account Name	Source Code
Adventist Rehabilitation Hospital of Maryland	ARHM
Anne Arundel Medical Center	AAMC
Atlantic General Hospital	AGH
Baltimore Washington Medical Center	UMMS_BWMC
Bon Secours Hospital	BSB
Calvert Health Medical Center, Inc.	CVMH
Carroll Hospital Center	СНС
Doctors Community Hospital	DCH
Fort Washington Medical Center	FWMC
Frederick Memorial Hospital	FMH_ID

## Panels Reports



Garrett Regional Medical Center	GCMH
Greater Baltimore Medical Center	GBMC
Harford Memorial Hospital	HARM
Holy Cross Hospital	НСН
Holy Cross Hospital Germantown	HCH_GT
Howard County General Hospital	HCGH
Johns Hopkins Bayview Medical Center	JHH_BVIEW
Johns Hopkins Hospital	JHH
McCready Health	MCMH
Medstar Franklin Square Medical Center	MEDSTAR_FSH
Medstar Good Samaritan Hospital	MEDSTAR_GSH
Medstar Harbor Hospital	MEDSTAR_HHC
Medstar Montgomery Medical Center	MGH
Medstar Southern Maryland Hospital Center	SMH
Medstar St. Mary's Hospital	STMH
Medstar Union Memorial Hospital	MEDSTAR_UMH
Mercy Medical Center	MHS
Meritus Medical Center	MMC
Mt. Washington Pediatric Hospital	MWPH
Northwest Hospital Center	LBH_NWH
Peninsula Regional Medical Center	PRMC
Saint Agnes Hospital	SAH
Shady Grove Adventist Hospital	ADVSGAH
Sinai Hospital of Baltimore	LBH_SHB
Suburban Hospital	SUBURBAN
Union Hospital of Cecil County	UHCC
University of Maryland Charles Regional Medical Center	CMC
University of Maryland Laurel Regional Hospital	LRH
University of Maryland Medical Center (UMMC)	UMMS_UMMC
University of Maryland Medical Center Midtown Campus	UMMS_MGH
University of Maryland Prince George's Hospital Center	PGHC
University of Maryland Rehabilitation and Orthopaedic Institute	UMMS_KERNAN
University of Maryland Shore Medical Center at Chestertown	UMMS_CHSTR
University of Maryland Shore Medical Center at Easton	UMMS_EASTON
University of Maryland St. Joeseph Medical Center	SJMC
Upper Chesapeake Medical Center	UCMC
Washington Adventist Hospital	ADVWAH
Western Maryland Health System	WMHS





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