



# MEDICARE CCLF ANALYTICS: MEDICARE ANALYTICS DATA ENGINE (MADE)

User Guide 1.1.2.31

August 12<sup>th</sup>, 2022

**hMetrix**

## TABLE OF CONTENTS

<b>1</b>	<b>Welcome to Medicare Analytics Data Engine .....</b>	<b>5</b>
1.1	Software Requirements .....	5
1.2	Launching MADE.....	5
1.3	Workflow.....	8
1.3.1	Population Analytics Reports.....	9
1.3.2	Patient Summary Reports.....	10
1.3.3	Episode Analytics Report.....	11
1.3.4	Pharmacy Analytics Report.....	12
1.3.5	Monitoring Reports .....	13
<b>2</b>	<b>Introduction to MADE .....</b>	<b>14</b>
2.1	MADE Home Page.....	14
2.2	Common Functions.....	15
2.2.1	Download an Excel Report.....	15
2.2.2	Export to PDF.....	16
2.2.3	Attribution Type Selection.....	17
2.2.3.1	Touch Methodologies.....	17
2.2.3.2	MPA Attribution Methodologies .....	18
2.2.3.3	PHI Sharing through Care Coordination Agreement (CCA) .....	18
2.2.4	Roster Selection.....	18
2.2.5	Roster Attribution Indication .....	19
2.2.6	Hospital / Hospital System Selection .....	21
2.3	Provider Search .....	21
2.4	Session Timeout .....	22
<b>3</b>	<b>Non-Participating Hospitals .....</b>	<b>23</b>
<b>4</b>	<b>Population Analytics .....</b>	<b>24</b>
4.1	Population Navigator .....	24
4.1.1	Population Navigator Columns.....	25
4.1.1.1	Standard Columns .....	25
4.1.1.2	User Defined Fields.....	28
4.1.1.3	Population Navigator Column Selection and Filters .....	29
4.1.1.4	Measures.....	30
4.1.2	Create/Edit/Delete Roster .....	31
4.1.2.1	Create a Roster.....	31
4.1.2.2	Edit a Roster .....	35
4.1.2.3	Delete a Roster .....	35
4.1.2.4	Excel Export .....	35
4.1.2.5	Loading a roster and beneficiary availability indicator .....	36
4.2	Patient Timeline.....	37
4.3	Patient Summary Reports .....	39

# Medicare Analytics Data Engine (MADE)

---

4.3.1	Patient Summary .....	40
4.3.2	Reported Medical Diagnosis .....	41
4.3.3	Evaluation and Management visits.....	42
4.3.4	Hospital Admissions .....	42
4.3.5	Admissions with PQI .....	43
4.3.6	SNF Stays .....	43
4.3.7	ER Services.....	44
4.3.8	Select Tests.....	45
4.3.9	Injectable/Part B Drugs.....	45
4.3.10	Prescription Drugs .....	46
4.3.11	High Risk Medication to Avoid Beers List.....	46
4.3.12	High Risk Medication - Use with Caution Beers List.....	47
4.3.13	Poly Pharmacy .....	47
4.3.14	Biological Products .....	48
4.3.15	Individual Monthly Drug Spend >\$500 .....	48
4.3.16	High-Risk Medication with Disease Interaction .....	49
4.3.17	Anticholinergic Burden .....	49
4.3.18	Outpatient Visits.....	50
4.3.19	Home Health .....	50
4.3.20	Physician Services.....	51
4.3.21	Hospice.....	51
4.3.22	Durable Medical Equipment.....	52
<b>4.4</b>	<b>Population Analytics .....</b>	<b>53</b>
4.4.1	PMPM by Demographics .....	54
4.4.2	PMPM by Type of Service .....	55
4.4.3	PMPM by County.....	56
4.4.4	County Distribution .....	57
4.4.5	County Characteristics.....	58
4.4.6	Diagnosis Summary .....	59
4.4.7	Inpatient Outpatient Providers.....	60
4.4.8	HH/SNF Providers .....	61
4.4.9	DRG Summary .....	62
4.4.10	BETOS Summary .....	63
4.4.11	Imaging Summary.....	64
4.4.12	Physician Specialty Summary .....	65
4.4.13	Physician Place of Service Summary.....	66
4.4.14	Paid Band Report.....	67
4.4.15	High Cost Member .....	68
<b>5</b>	<b>Episode Analytics.....</b>	<b>69</b>
<b>5.1</b>	<b>Financial Performance .....</b>	<b>70</b>
5.1.1	Payment Details.....	71
5.1.2	Episode Payment Distribution .....	72

<b>5.2</b>	<b>Acute Care Management .....</b>	<b>73</b>
5.2.1	Length of Stay.....	74
5.2.2	Readmission Overview .....	75
5.2.3	Readmission Analysis.....	76
5.2.4	Physician Report.....	77
5.2.5	Physician Readmissions .....	78
<b>5.3</b>	<b>Post-Acute Care Management .....</b>	<b>79</b>
5.3.1	First PAC Payment .....	80
5.3.2	Physician Discharge Pattern .....	81
5.3.3	Inpatient Rehabilitation Report .....	82
5.3.4	Skilled Nursing Facility Report .....	83
5.3.5	Home Health Report.....	84
5.3.6	Sequence of Care .....	85
5.3.7	Opportunity Summary.....	86
5.3.7.1	Episode Details .....	87
5.3.8	Post-Acute Variance Explorer (PAVE) Savings Opportunity .....	88
<b>5.4</b>	<b>Drill-Down Analytics.....</b>	<b>89</b>
5.4.1	Physician Details .....	89
5.4.2	Post-Acute Provider Details.....	91
5.4.3	Patient-Level Details.....	92
<b>6</b>	<b>Pharmacy Analytics .....</b>	<b>93</b>
<b>6.1</b>	<b>Top 200 Drugs .....</b>	<b>93</b>
6.1.1	Top 200 Drugs Detail Report .....	94
<b>6.2</b>	<b>High Risk Medications – Top 100 Prescribers.....</b>	<b>95</b>
6.2.1	High Risk Medications Prescriber Summary .....	96
6.2.2	High Risk Medication Detail Report All Prescribers .....	97
6.2.3	High Risk Medication Detailed Claim by Prescriber .....	98
<b>6.3</b>	<b>High-Risk Medications – Top 100 Prescriptions.....</b>	<b>99</b>
<b>6.4</b>	<b>Top 10 Therapeutic Categories: Rolling 12 Months.....</b>	<b>101</b>
6.4.1	Top Ten Therapeutic Categories: BRAND/Generic Utilization .....	102
6.4.2	Top Ten Therapeutic Category: [Drug Name] Details .....	103
6.4.3	Top Ten Therapeutic Categories: Claims and Cost by Age.....	104
<b>6.5</b>	<b>Opioid Claims-Global Summary .....</b>	<b>105</b>
6.5.1	Opioid Claims Detail .....	106
<b>6.6</b>	<b>Medication Synchronization Opportunity Summary.....</b>	<b>107</b>
6.6.1	Medication Synchronization Opportunity Detail .....	108
<b>6.7</b>	<b>Biological Products Utilization .....</b>	<b>109</b>
6.7.1	Biological Products Detail Claims All.....	110
<b>6.8</b>	<b>Prescription Activity Report.....</b>	<b>111</b>
<b>6.9</b>	<b>Top Ten Therapeutic Categories - BRAND/Generic Utilization Summary.....</b>	<b>112</b>
<b>6.10</b>	<b>Post-Op Infections and Surgery Rates with Tumor Necrosis Factor (TNF) Blockers .....</b>	<b>113</b>
<b>7</b>	<b>Monitoring Reports .....</b>	<b>114</b>



<b>7.1</b>	<b>Key Utilization Metrics Report</b>	<b>114</b>
7.1.1	Claim Details and Admission Details	117
7.1.2	Admissions with Readmission	118
7.1.3	Medication Synchronization Details	118
7.1.3.1	Medication Synchronization Opportunity Detail	119
<b>7.2</b>	<b>Key Performance Metrics Report – Population Health</b>	<b>120</b>
7.2.1	Report Filters	121
7.2.2	Claim Details	123
7.2.3	Admissions with Readmission	124
7.2.4	Medication Synchronization Opportunity Summary	125
7.2.5	Medication Synchronization Opportunity Detail	126
<b>7.3</b>	<b>Key Performance Metrics Report – Indexed Enrollment</b>	<b>127</b>
7.3.1	Report Filters	128
7.3.2	Claim Details	129
7.3.3	Admissions with Readmission	130
7.3.4	Medication Synchronization Opportunity Summary	131
7.3.5	Medication Synchronization Opportunity Detail	132
<b>7.4</b>	<b>Hospital Touch (Belong) Report</b>	<b>133</b>
<b>7.5</b>	<b>SNF Utilization Reports</b>	<b>134</b>
7.5.1	SNF Utilization Report Masked	137
7.5.2	SNF Utilization Report Unmasked	138
7.5.2.1	SNF Utilization Report: Drill Through Reports	141
7.5.2.1.1	Beneficiary Details by Service Line	142
7.5.2.1.2	SNF Utilization Trend by Provider	143
<b>8</b>	<b>Help</b>	<b>144</b>
<b>8.1</b>	<b>Glossary</b>	<b>144</b>
<b>8.2</b>	<b>CCLF Data Basics</b>	<b>147</b>
8.2.1	CCLF	147
8.2.2	Population Assignment	148
8.2.2.1	Hospital “Touch” Attribution	148
8.2.2.2	MPA Year 5 Attribution	148
8.2.3	Physician Assignment in Episodes	149
8.2.4	Episode	149
8.2.5	Readmission and Transfer	151
8.2.6	Care Setting Abbreviations	152
8.2.7	Cost Adjustment Factors	152
8.2.8	Target Price	153
8.2.9	hMetrix Advanced Model (hAM)	153

# 1 WELCOME TO MEDICARE ANALYTICS DATA ENGINE

Medicare Analytics Data Engine (MADE) is a web-based application that consists of a suite of Population Analytics, Episode Analytics, Pharmacy Analytics and Monitoring reports built based on Claim and Claim Line Feed (CCLF) data for Maryland. hMetrix and CRISP have received the latest 36 months of data for 100% of the Maryland Medicare Fee for Service (FFS) beneficiaries. Using the beneficiary's unique identifier, beneficiary's claim payments, types of service, procedures, diagnoses and eligibility are tracked throughout the 36 months. This allows for analyses to be presented across the entire population, as well as episodes of care to be analyzed at the beneficiary level.

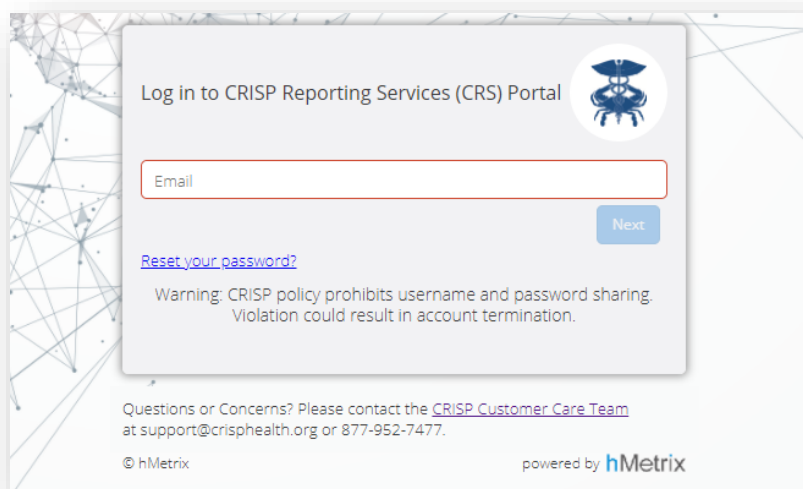
## 1.1 Software Requirements

MADE is a web-based application accessible through a modern browser: Google Chrome 57 or higher, Internet Explorer 11 or higher, Firefox 52 or higher, and Safari 9 or higher.

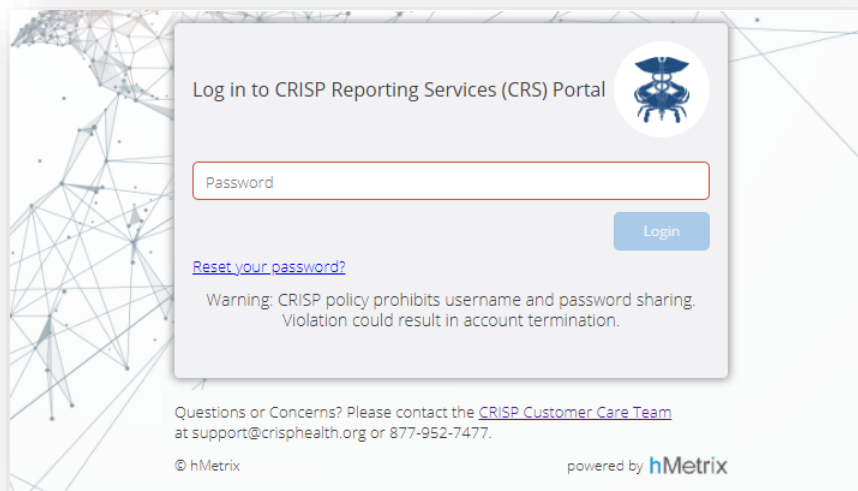
## 1.2 Launching MADE

A user trying to access MADE must first login to the CRISP Hospital Reporting Portal. Once in the portal, the user shall click the Card named "Medicare Population." The following screen shots represent the user's workflow.

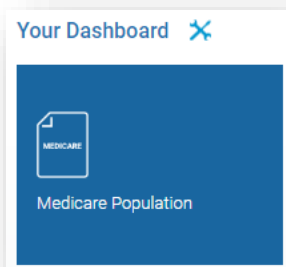
Step 1: Log into the CRISP Hospital Reporting Portal using the user ID and password provided for the portal - <https://reports.crisphealth.org/>



The screenshot shows the login interface for the CRISP Reporting Services (CRS) Portal. The page has a light gray background with a subtle geometric pattern. A central white box contains the login form. At the top of the box, it says "Log in to CRISP Reporting Services (CRS) Portal" next to a blue circular logo featuring a caduceus. Below this is a text input field labeled "Email". To the right of the input field is a blue "Next" button. Below the input field is a blue link that says "Reset your password?". Underneath the link is a warning message: "Warning: CRISP policy prohibits username and password sharing. Violation could result in account termination." At the bottom of the white box, there is a line of text: "Questions or Concerns? Please contact the [CRISP Customer Care Team](\"mailto:support@crisphealth.org\") at support@crisphealth.org or 877-952-7477." Below the white box, on the left, is the text "© hMetrix" and on the right is the text "powered by hMetrix".



Step 2: Click the Card named “Medicare Population” within the Portal



Step 3: Click the link next to “CCLF Medicare Analytics & Data Engine”



Step 4: Upon clicking the link, you will be directed to the MADE site in a new tab.

**CRISP** CCLF MEDICARE ANALYTICS & DATA ENGINE hMetrix, Admin Logout

Home Population Episode Pharmacy Monitoring Administration Help Hospital Adventist Shady Grove Attribution Type: IP

Start Here.

**Population Analytics**

- > Population Navigator
- > County Distribution
- > HH/SNF Providers
- > Physician Specialty Summary
- > PMPM by Demographics
- > County Characteristics
- > DRG Summary
- > Physician Place of Service Summary
- > PMPM by Type of Service
- > Diagnosis Summary
- > BETOS Summary
- > Paid Band Report
- > PMPM by County
- > Inpatient Outpatient Providers
- > Imaging Summary
- > High Cost Member

**Episode Analytics**

**Financial**

- > Financial Performance
- > Payment Details
- > Episode Payment Distribution

**Acute Care**

- > Acute Care Management
- > Length of Stay
- > Readmission Overview
- > Readmission Analysis
- > Physician Report
- > Physician Readmissions

**Post-Acute Care**

- > Post-Acute Care Management
- > First PAC Payment
- > Physician Discharge Pattern
- > Inpatient Rehab Report
- > Skilled Nursing Facility Report
- > Home Health Report
- > Sequence of Care
- > Opportunity Summary
- > PAVE - Savings Opportunity

**Pharmacy Analytics**

- > Top 200 Drugs
- > Opioid Claims - Global Summary
- > Top 10 Therapeutic Categories - BRAND/Generic Utilization Summary
- > High Risk Medications - Top 100 Prescribers
- > Medication Synchronization Opportunity Summary
- > Post-Op Infections with Tumor Necrosis Factor (TNF) Blockers
- > High Risk Medications - Top 100 Prescriptions
- > Biological Products Utilization
- > Top 10 Therapeutic Categories - Rolling 12 Mon
- > Prescription Activity Report

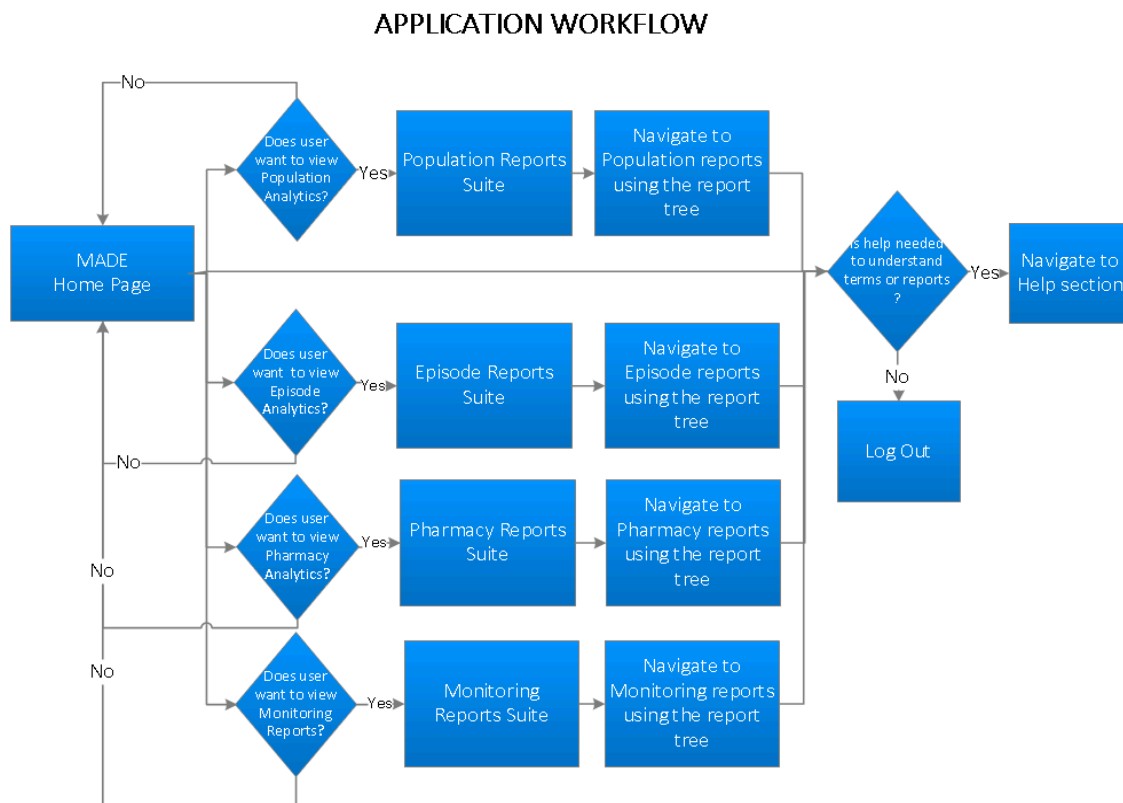
**Monitoring**

- > Key Utilization Metrics
- > Key Performance Metrics Report - Population Health
- > Hospital Touch (Belong) Reports
- > Key Performance Metrics Report - Indexed Enrollment
- > SNF Utilization Report - Masked
- > SNF Utilization Report - Unmasked

© hMetrix

## 1.3 Workflow

The workflow of MADE is shown below.

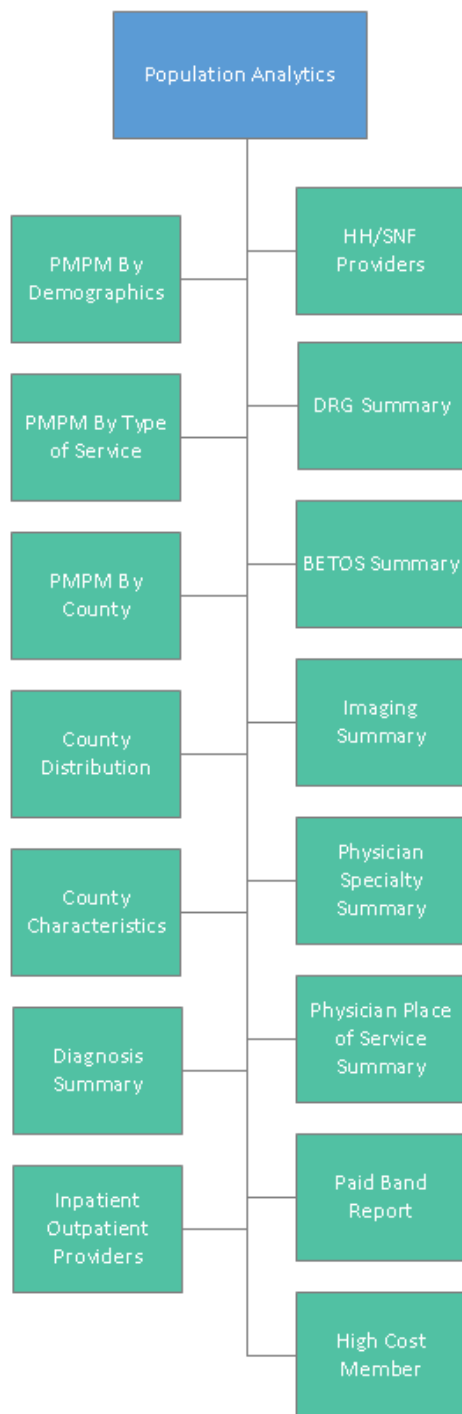


There are four suites of reports in MADE:

- Population Analytics Reports
- Episode Analytics Reports
- Pharmacy Analytics Reports
- Monitoring Reports

## 1.3.1 Population Analytics Reports

The **Population Analytics** reports are accessible by clicking on **Population** from the main menu and selecting **Population Analytics** from the side menu options. The breakdown of the **Population Analytics** reports and the navigation paths are shown in the diagram below.



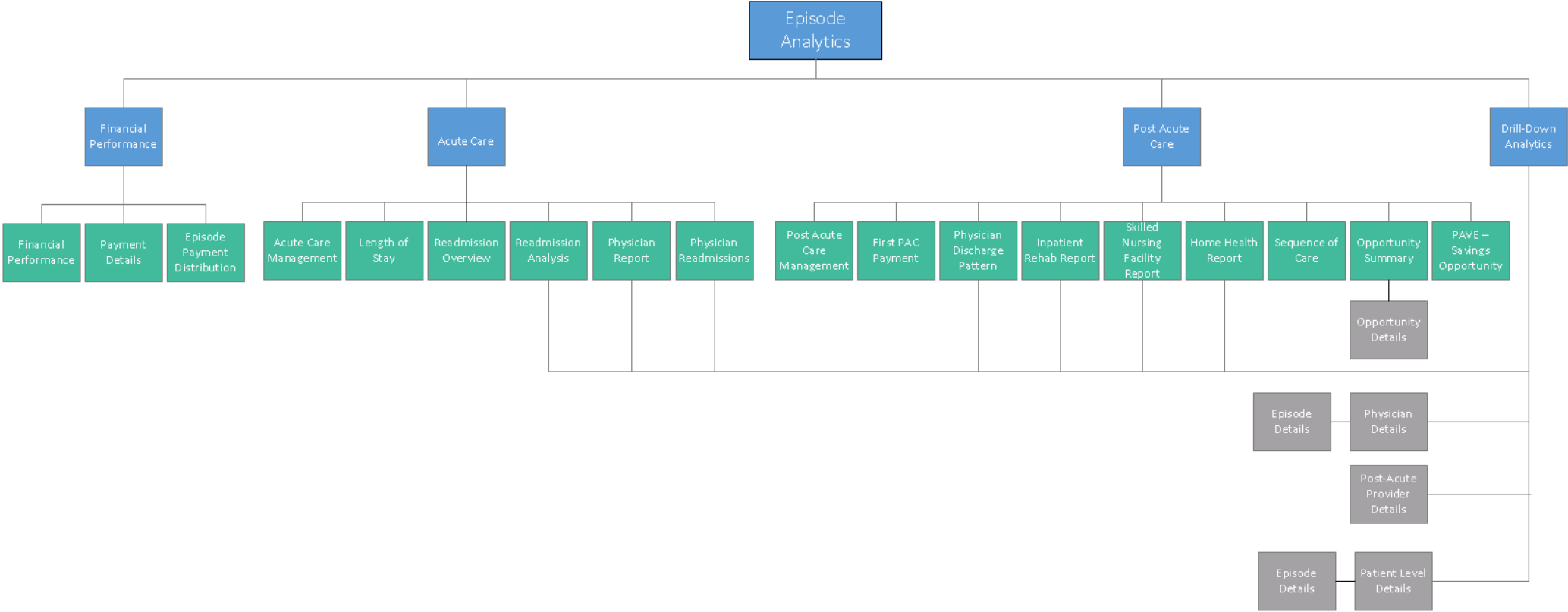
## 1.3.2 Patient Summary Reports

The **Patient Summary** reports are accessible by clicking on the **Patient Name** from the **Population Navigator**. The breakdown of the **Patient Summary** reports and the navigation paths are shown in the diagram below.



1.3.3 Episode Analytics Report

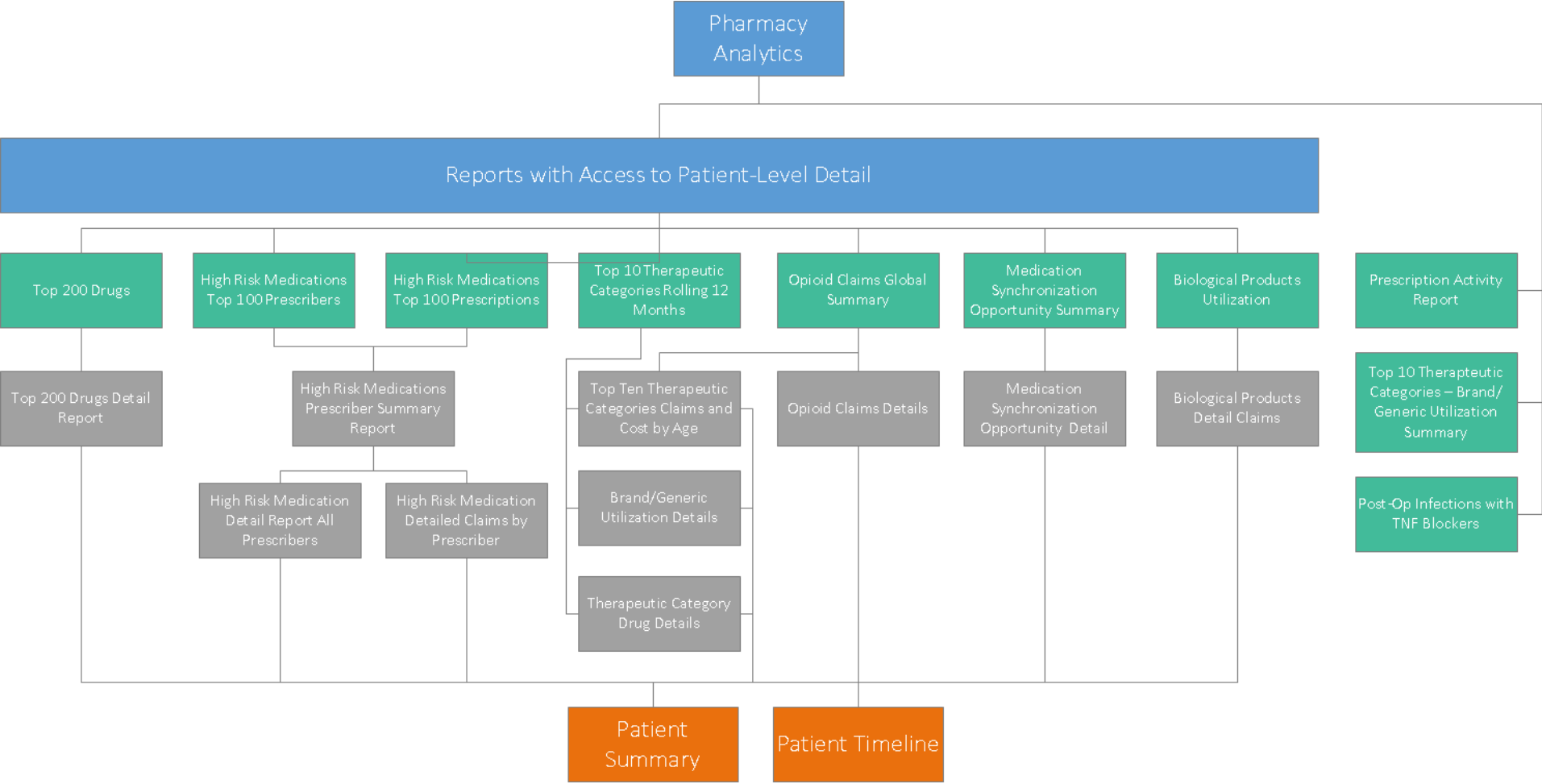
The **Episode Analytics** reports are accessible by clicking on **Episode** from the main menu. The breakdown of the **Episode Analytics** reports and the navigation paths are shown in the diagram below. The reports accessible from the main menu are represented by green, while the drill-through reports accessible from main reports or through the **Drill-Down Analytics** section are represented by grey. Blue represents the different section of the Episode Analytics module.





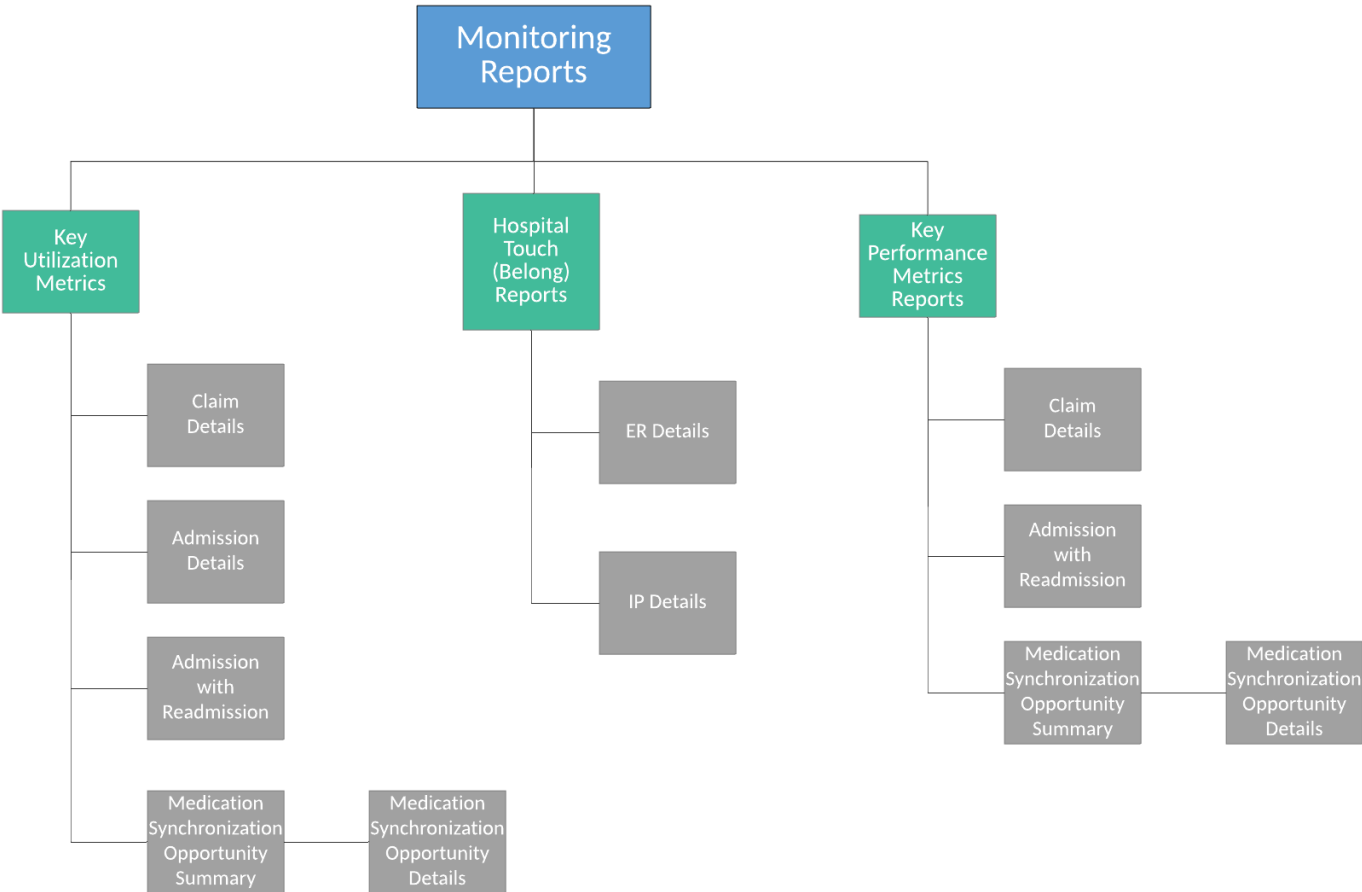
1.3.4 Pharmacy Analytics Report

The **Pharmacy Analytics** reports are accessible by clicking on **Pharmacy** from the main menu. The breakdown of the **Pharmacy Analytics** reports and the navigation paths are shown in the diagram below. The reports accessible from the main menu are represented by green, while the drill-through reports accessible from main are represented by grey. All reports under the sub-heading “Reports with Access to Patient-Level Detail” will direct the user to patient-level claims data in the Patient Summary and Patient Timeline.



1.3.5 Monitoring Reports

The **Monitoring Reports** are accessible by clicking on **Monitoring** from the main menu. The breakdown of the **Monitoring Reports** and the navigation paths are shown in the diagram below. The reports accessible from the main menu are represented by green, while the drill-through reports accessible from main are represented by grey.



## 2 INTRODUCTION TO MADE

### 2.1 MADE Home Page

The MADE home page provides an overview of all the available reports in the application.



This home page contains a main menu to the application's five modules, which includes:

- **Main Dashboard** – displays the Home page.
- **Population Analytics Reports** – displays the reports associated with Population Analytics. These reports are described in further detail in section 4 - Population Analytics.
- **Episode Analytics** – displays the reports associated with Episode Analytics. These reports are described in further detail in section 5 - Episode Analytics.
- **Pharmacy Analytics** – displays the reports associated with Pharmacy Analytics. These reports are described in further detail in section 6 - Pharmacy Analytics.
- **Monitoring** – displays the reports associated with Monitoring Reports. These reports are described in further detail in section 7 – Monitoring Reports.
- **Administration** – displays the reports associated with usage of the application. This section is only available to users who are part of CRISP Reporting Services and have an administrator role. For administration reports, refer to the Admin Guide.

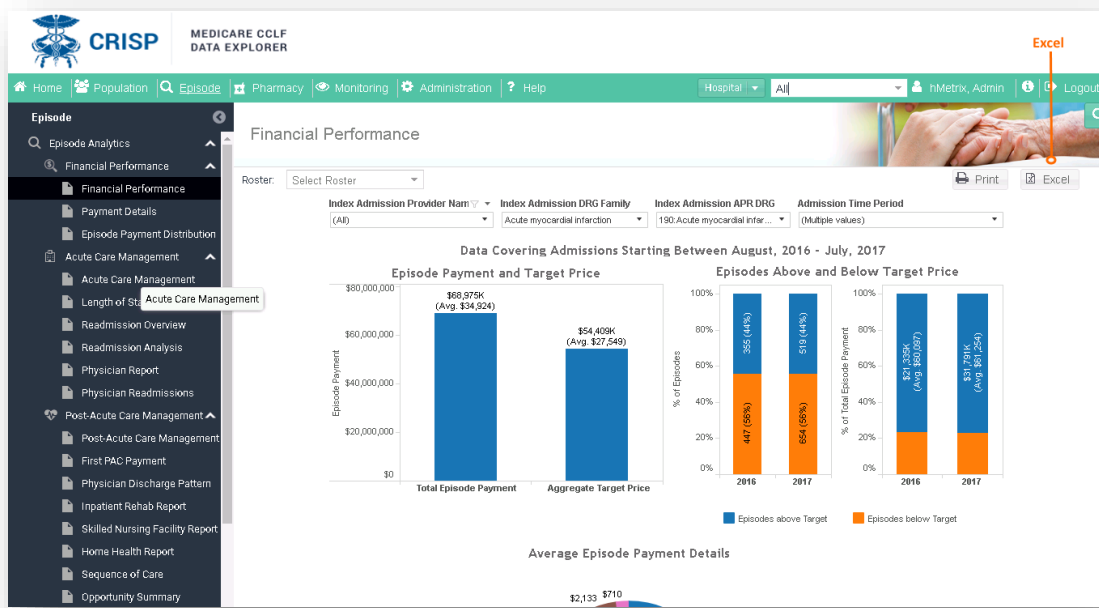
- **Help** – displays the downloadable User Manual and additional resources.

## 2.2 Common Functions

Exporting to PDF and Excel and Roster selection are available for all reports.

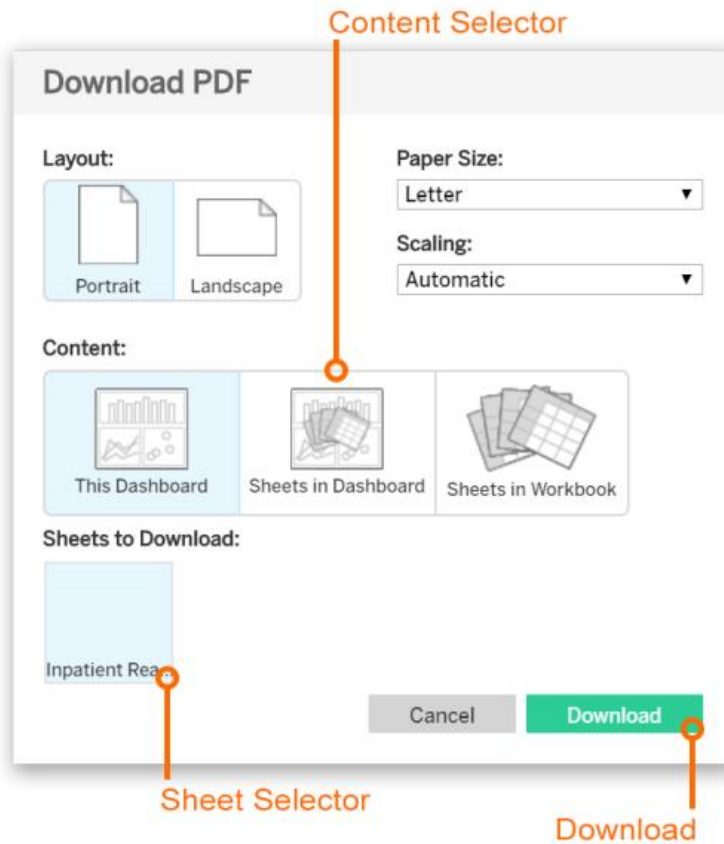
### 2.2.1 Download an Excel Report

To download a report to Excel, click the **Excel** button in the upper right corner of the report. Clicking this button will download the Excel workbook to the download folder on your computer.



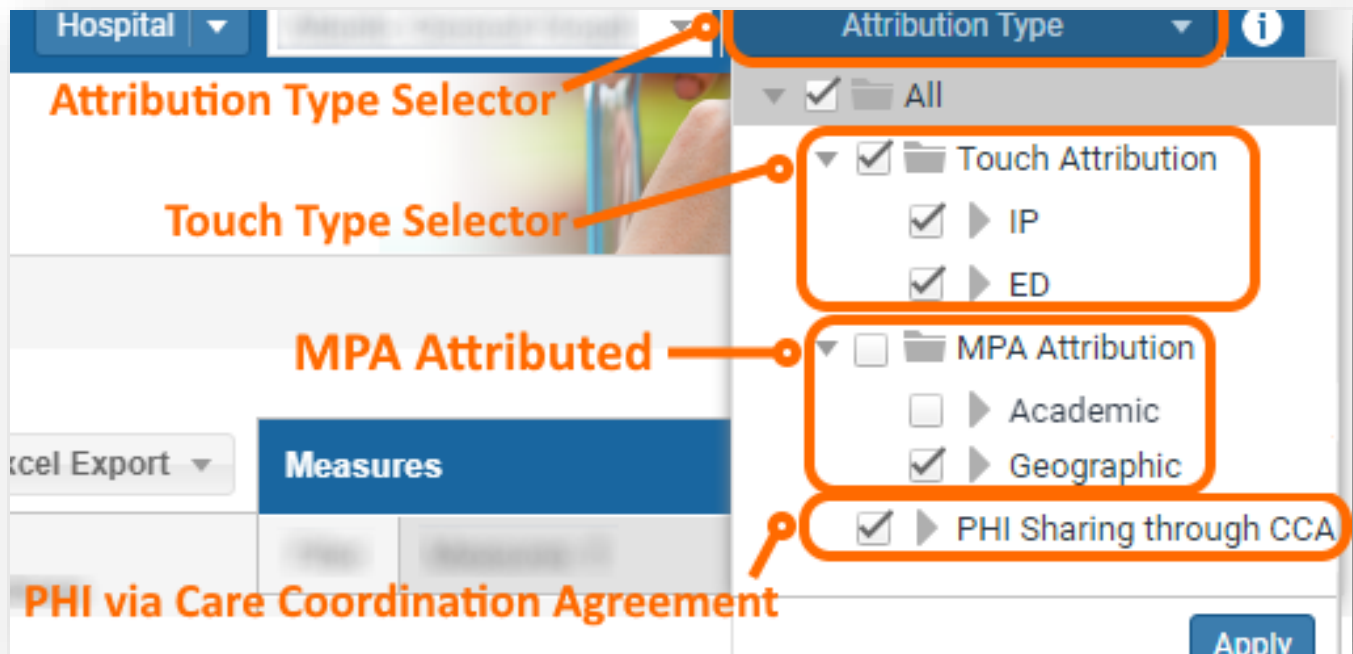
### 2.2.2 Export to PDF

To export a report to PDF, click the Print button in the upper right corner of the report. Clicking this button will show the PDF export menu. Click on the download button to download the PDF report to the download folder of your computer.



## 2.2.3 Attribution Type Selection

MADE allows for users to view patients attributed to their hospital using two different “touch” attribution methods as well as through Medicare Performance Adjustment (MPA) attribution methods. All attribution types are presented according to **OR** logic, such that all beneficiaries with any of multiple selected attribution types are shown. Simply select the desired attribution type(s) from the Attribution Type drop-down selector.



### 2.2.3.1 Touch Methodologies

Users can see patients attributed to their hospital based solely on inpatient hospitalizations (IP) or based on inpatient hospitalizations or emergency department visits (IP+ED) during the last 36 months. While data moving forward will be loaded into MADE based on the IP+ED algorithm, the IP attribution option allows hospitals to track a consistent panel of patients over time. The IP+ED selector is available for Episode reports. However, as by definition, all episodes begin with an inpatient hospitalization, so the ED attribution will not change the number of episodes initiated by the hospital.

Within Population Navigator, the column for Touch Attribution Type identifies the attribution method that captures a beneficiary - 'IP', 'IP+ED', and 'Both'.

Beneficiaries with both an IP and ED 'touch' at the hospital, as described above, in the 36 months of CCLF data presented will have the value 'Both' indicated in the column, "Touch Attribution Type."

### 2.2.3.2 MPA Attribution Methodologies

**Geographic** – Beneficiary is attributed to a hospital based on the hospital’s Primary Service Area (PSA) or by the PSA Plus (PSAP) methodology when PSAs overlap for multiple hospitals. Beneficiaries attributed under MPA by geography with a “touch” at the hospital are visible in the application, even if a Care Coordination Agreement is not available.

**Academic** – Beneficiary is attributed to an academic medical center (AMC), either Johns Hopkins Hospital or University of Maryland Medical Center, through an inpatient touch at the hospital for an admission that is associated with a case mix index (CMI)  $\geq 1.5$ . Academic attribution is agnostic to the beneficiary’s residence or Geographically attributed hospital.

Beneficiaries can be attributed to the same – or to different - hospitals under both Geographic and Academic attribution algorithms, as the logic is not mutually exclusive or heirarcical.

### 2.2.3.3 PHI Sharing through Care Coordination Agreement (CCA)

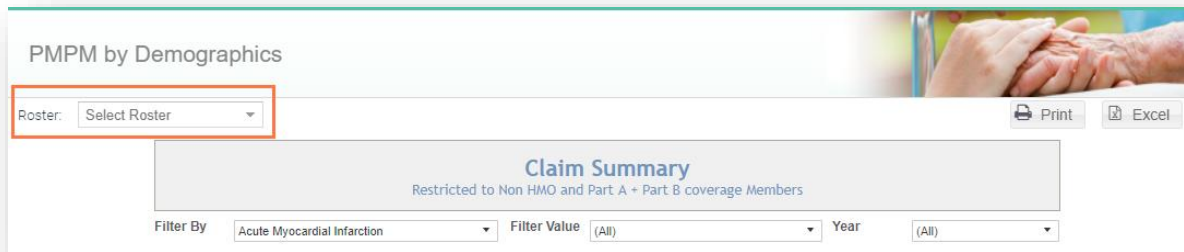
Hospitals may attest to legal arrangements with providers (individual clinicians and facilities). Through these arrangements, the hospitals are allowed to view PHI-level data for beneficiaries with treatment relationships with those providers. These arrangements – referred to as care coordination agreements – can include employment contracts and referral patterns, among others. A treatment relationship is defined differently for clinician and facility partners:

- Clinician partners: The beneficiary has at least one claim with an Evaluation and Management (E&M) code within the last 36 months from the clinician partner
- Facility partners: Every beneficiary that has an admission/episode of care within the last 36 months from the facility partner.

Note that, consistent with the Touch methodology, PHI Sharing through CCA is not an attribution approach, rather is simply a policy that allows beneficiary PHI level data to be shared with hospitals. It has no relation to the MPA attribution or touch methodologies. To explore a hospital’s MPA attributed population, the user should select the MPA Attribution option.

### 2.2.4 Roster Selection

You can filter any report based on any defined Roster.



PMPM by Demographics

Roster: Select Roster

Print Excel

**Claim Summary**  
Restricted to Non HMO and Part A + Part B coverage Members

Filter By: Acute Myocardial Infarction Filter Value: (All) Year: (All)

### 2.2.5 Roster Attribution Indication

When a roster is selected and loaded, an icon with an “i” will appear to the right of the selected roster. Hovering the cursor over this icon shows the distribution of roster beneficiaries by attribution type. The icon is colored grey when all beneficiaries in the roster are loaded into the reports. The icon is colored red when one or more beneficiaries in the roster are not loaded into the reports due to the current attribution type selected. An important note is that when using MADE, the default attribution type selection is the Touch Attribution “IP.” Any beneficiaries available via the MPA attribution types that are not also attributed by an IP touch will not be shown with the default selection.

For example, with only IP attribution selected, loading a roster that contains beneficiaries with ED only or MPA attribution, the “i” icon will be red. In Population Navigator, the user can compare to the Total Unique Beneficiaries in the attribution table to the count indicated under the table. Note that beneficiaries may be attributed by MPA as well as by IP or ED touch, and/or PHI Sharing through CCA. Therefore, the “Total Unique Beneficiaries” in the attribution type table will often not reflect the sum attribution categories.



Standard View | Home | Population | Episode | Pharmacy | Monitoring | Hospital | Attribution Type

Population Navigator

Roster: 772 - attr\_test i

\* Hover over the info icon to view the MPA attribution distribution for your roster.  
\* Double click on row to edit

Attribution	Count
Touch Attribution	
IP	319
ED	239
MPA Attribution	
Geographic	158
Academic	0
PHI Sharing through CCA	
PHI Sharing through CCA	137
<b>Total Unique Beneficiaries</b>	<b>369</b>

Excel Export

State: Maryland

Measures

Filter Measures ↑

CCW Chronic Conditions (Filtered:0)

Condition	Yes	No
Acquired Hypothyroidism	89	
Acute Myocardial Infarction	11	
Alzheimer's Disease	12	
Alzheimer's Disease and Rel...	108	
Anemia	209	
Asthma	29	
Atrial Fibrillation	112	
Benign Prostatic Hyperplasia	69	

Page 1 of 13 | Displaying 1 - 25 | 307

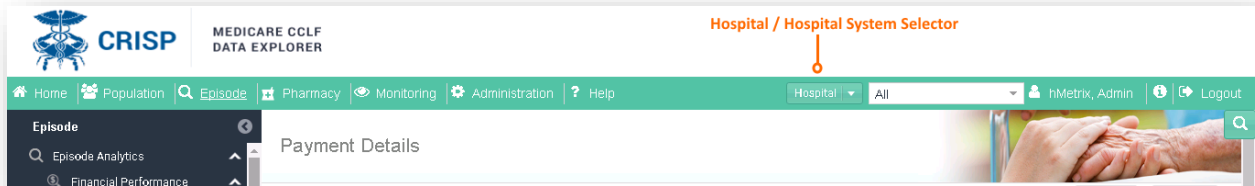
Roster: 772 - attr\_test i

\* Hover over the info icon to view the MPA attribution distribution for your roster.

**Gray "i" icon indicates all beneficiaries in the roster are visible according to attribution type(s) selected.**

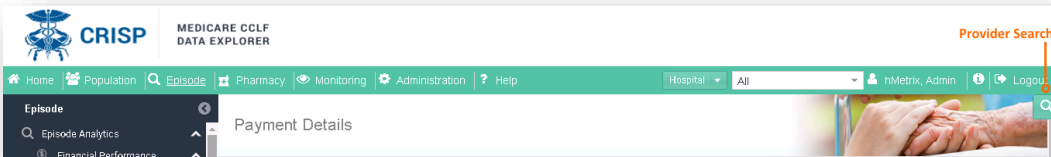
## 2.2.6 Hospital / Hospital System Selection

For users with access to more than one hospital within a hospital system, you can filter any report based on an individual hospital, or a hospital system. Select “Hospital” or “Hospital System” from the drop down and choose the entity of interest.



## 2.3 Provider Search

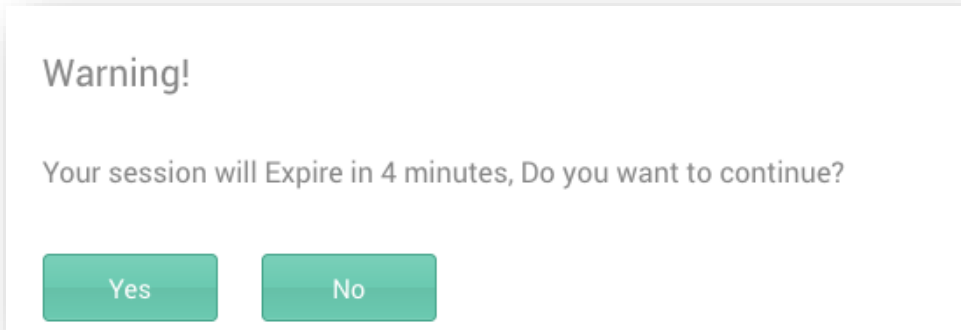
The Provider Search is a quick way to view prescriber or pharmacy information while viewing a report. The Provider Search icon is available on the top right-hand corner below the logout menu option. Select the Provider Type from the drop-down and then enter the Provider ID / or NPI into the field and the corresponding Provider information will be displayed in the grid below.



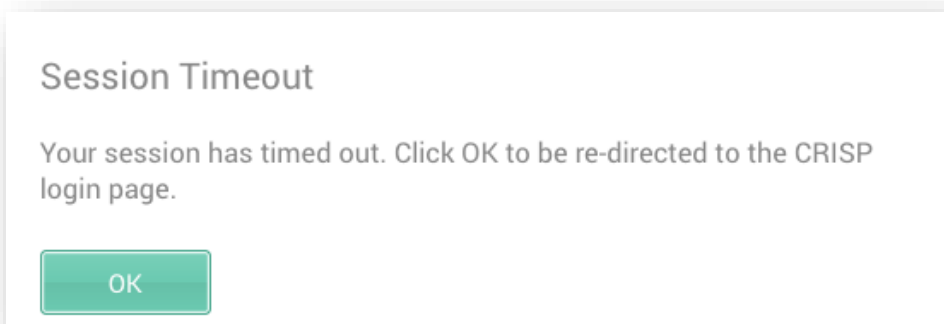
The screenshot shows the 'Provider Search' modal window. It has a 'Provider Type' dropdown menu with options 'All', 'Pharmacy', and 'Prescriber'. The 'All' option is currently selected. There is a 'Provider ID/NPI' search field with a magnifying glass icon. Below these fields is a table with columns: Name, Street Address, State, City, Postal, and Phone. The table is currently empty. At the bottom of the modal, there is a pagination bar showing 'Page 0 of 0' and a 'No data to display' message. A 'Close' button is located in the top right corner of the modal.

### 2.4 Session Timeout

To minimize unauthorized use of MADE, a user's session is set to time out after 30 minutes of inactivity. A warning message will be displayed 5 minutes before the session times out.

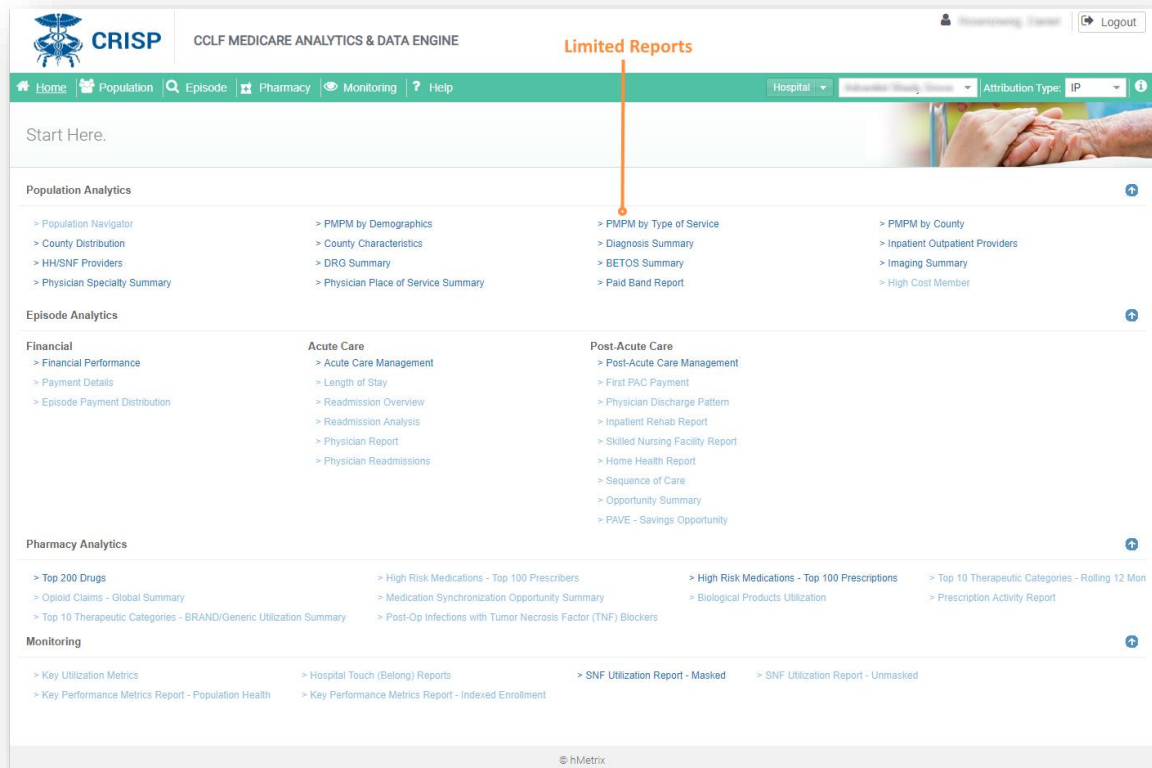


If the user clicks **Yes** to the warning message, then the user's session will be active for another 30 minutes. If the user clicks **No** or does not respond to the warning message, the user's session will time out and the Session Timeout warning message will be displayed.

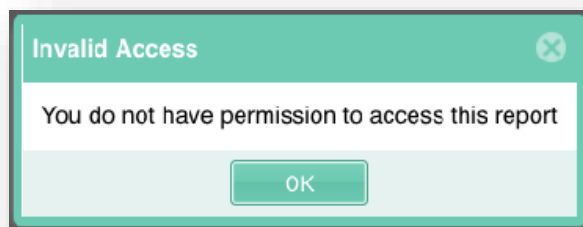


### 3 NON-PARTICIPATING HOSPITALS

Hospitals who have not yet registered for the CCLF reports can access a subset of summary reports. From the MADE home page, click on the report name to view more details. Reports that are in dark blue are accessible to non-participating hospitals and reports in light blue require you to be registered with CRISP.



An Invalid Access message will be displayed if a user attempts to access reports without the appropriate registration. Contact CRISP for instructions on how to register for additional reports.



## 4 POPULATION ANALYTICS

The Population module includes the Population Navigator and Population Analytics reports. The Population Navigator provides a list of Patients enrolled in the program and specific Patient reports. The Population Navigator also includes the Patient Timeline, which graphically represents patient-specific care over time, and Patient Summary, which contains a series of patient-specific reports based on a series of diagnostic and utilization characteristics. The Population Analytics reports provide reports that aggregate the population based on series of variables. The Population module contains all health care utilization and payments for Part A and B Medicare services. Part D prescription drugs are included only in the Patient Navigator. The sections below provide further details on each section. For detailed information about the beneficiary attribution methodology, as well as the data analyzed in MADE, refer to the topic in CCLF Data Basics titled Population Assignment.

### 4.1 Population Navigator

The Population Navigator provides a list of patients attributed to a hospital, patients enrolled in a program and patient-specific reports.

The screenshot shows the Population Navigator interface with the following components and annotations:

- Population Navigator**: The main title of the section.
- Collapsible Menu**: A sidebar menu on the left containing various report categories like PMPM by Demographics, PMPM by Type of Service, County Distribution, etc.
- Roster Selection**: A dropdown menu labeled "Roster: Select Roster" with a note "\* Double click on row to edit".
- Create Roster**: A button located above the roster table.
- Excel**: A button labeled "Excel Export" for downloading the data.
- Hospital Filter**: A dropdown menu labeled "Hospital:" for filtering patients by hospital.
- Attribution Selector**: A dropdown menu labeled "Attribution Type: IP" for selecting the attribution method.
- Measures**: A section on the right titled "Measures" with a "Filter" button and a list of clinical conditions with checkboxes and counts (e.g., Antidepressants: Both 430, Antipsychotic: Both 352).
- Patient Timeline**: A small thumbnail image showing a patient's care timeline.
- Collapsible Measures Menu**: A button to expand or collapse the measures list.
- Table**: A table with columns: Master Patient ID, Gender, DOB, Patient Name, Physician, and Expired. It displays a list of patients.
- Page Navigation**: At the bottom, it shows "Page 1 of 416" and "Displaying 1 - 25 of 10387". A note "Click to change page" points to the page number.

### 4.1.1 Population Navigator Columns

There are two types of columns in Population Navigator:

- Standard columns with pre-populated fields that cannot be edited
- User defined fields, which are blank until information is populated by the user

User may reorder columns by clicking and dragging a column header to the desired location. Users can also select which columns to include in the view by hovering over a column header, clicking the resulting arrow to the right of the header, and selecting and deselecting column names.

#### 4.1.1.1 Standard Columns

The below table describes each column in Population Navigator that contains beneficiary-level information from the CCLF data or otherwise derived by CRISP.

COLUMN NAME	DESCRIPTION
<b>Master Patient ID</b>	Medicare Beneficiary Identifier (MBI) contained in the CCLF data
<b>Encrypted Patient ID</b>	Legacy beneficiary identifier; a scrambled HICN
<b>Patient Name</b>	Concatenated patient name as presented in the CCLF; contains hyperlink to Patient Summary
<b>Patient First Name</b>	Patient first name; useful for filtering or sorting in MADE or in Excel export
<b>Patient Middle Name</b>	Patient middle initial; indicated as "^" when not available. Useful for filtering or sorting in MADE or in Excel export
<b>Patient Last Name</b>	Patient last name; useful for filtering or sorting in MADE or in Excel export
<b>Gender</b>	Identified as Male or Female
<b>DOB</b>	Date of birth in MM/DD/YYYY format
<b>Date of Death</b>	Date of death as indicated in the CCLF 'BENE_DEATH_DT' variable. Only populated for beneficiaries with "Expired" status.
<b>State</b>	State of residence according to CMS beneficiary files; two letter state code
<b>Touch Attribution</b>	Identifies whether beneficiary has had a touch at the hospital in the last 36 months; IP, ED, or BOTH
<b>MPA Attribution</b>	Designates the whether the beneficiary is MPA attributed to the current hospital; geographic, academic, or both. See Section 2.2.3 for more details.
<b>MPA Attributed Hospital</b>	Name of the MPA Attributed hospital regardless of whether the beneficiary is attributed to the selected hospital. Shows "Multiple" for Geographically attributed beneficiaries with shared attribution across more than one hospital
<b>Treated by Clinician/Facility with CCA</b>	Indicates whether beneficiary has a treatment relationship with the clinician/provider and that the hospital has attested to having a CCA with the clinician/partner for PHI sharing purposes.

<b>Treated by Clinician in CTO</b>	Indicates whether beneficiary is attributed to an MDPCP participating physician that is affiliated with the hospital-based CTO.
<b>Treated by Affiliated Physician – MDPCP Supp. MPA Adj.</b>	Indicates whether beneficiary is attributed to an MDPCP participating physician that was identified as a hospital affiliated provider under the MDPCP Supplemental MPA Adjustment policy.
<b>Current Year Inpatient Admission Count</b>	Count of all STACH Admissions in the most recent 12 months excluding the 3 month claim lag
<b>Current Status</b>	Eligibility status based on most recent month. Active (Part A and Part B, i.e. FFS), Disenrolled (no longer FFS in latest month's CCLF), Expired (deceased), HMO/Not Part A and Part B (Either only Part A, only Part B, or not entitled/eligible for Medicare benefits)
<b>Dual Eligibility</b>	Value is 'Yes' if the Medicare beneficiary also qualified for Medicaid for at least one month in the CCLF. Value is 'No' if the Medicare beneficiary did not also qualify for Medicaid for any month in the CCLF.
<b>MRN</b>	Medical Record Number; as indicated in the CCLF on claims for the selected hospital. Leading zeroes and alpha characters are removed. A beneficiary touch attributed to multiple hospitals will have a different MRN displayed in each hospital's view
<b>Most Recent Encounter Date at Attributed Hospital</b>	Date of most recent IP or ED admission at selected hospital
<b>HCC Score Recent Full CY</b>	Hierarchical Condition Category score; version 24 calculated for calendar year 2021 using the CCLF data.
<b>HCC Score Prior Full CY</b>	Version 24 calculated for calendar year 2020 using the CCLF data.
<b>HCC Score Oldest Full CY</b>	Version 24 calculated for calendar year 2019 using the CCLF data.
<b>HCC Score Recent Full FY</b>	Version 24 calculated for fiscal year 2022 using the CCLF data.
<b>HCC Score Prior Full FY</b>	Version 24 calculated for fiscal year 2021 using the CCLF data.
<b>HCC Score Oldest Full FY</b>	Version 24 calculated for fiscal year 2020 using the CCLF data.
<b>Measure Count</b>	Count of measures with positive values (see User Guide section 4.1.1.3)
<b>hAM Score</b>	hMetrix Advanced Model risk score; predicts likelihood of high healthcare utilization in the next 12 months, range 0-1. See Section 8.2.9 for more information.
<b>Current Year Medical Paid</b>	Sum of payments for medical claims in the most recent 12 months; excluding the 3 month claim lag
<b>Previous Year Medical paid</b>	Sum of payments for medical claims in the 12 months prior to the most recent 12 months; excluding the 3 month claim lag
<b>Current Year Pharmacy Paid</b>	Sum of estimated payments for Part D pharmacy claims in the most recent 12 months; excluding the 3 month claim lag (See Section 6 for additional detail)

<b>Previous Year Pharmacy Paid</b>	Sum of estimated payments for Part D pharmacy claims in the 12 months prior to the most recent 12 months; excluding the 3 month claim lag (See Section 6 for additional detail)
<b>PQI 90 Admissions</b>	Count of PQI admissions for measures included in the list of “PQI – Inpatient and OBS > 24” measures in Population Navigator that occurred at <i>any</i> hospital for the presented beneficiaries. A single discharge that qualifies for multiple PQIs is counted once in the composite measure.



4.1.1.2 User Defined Fields

Population Navigator includes several fields/columns that can be populated and edited by a user in MADE; these fields do not contain any information by default. To populate these fields, a user can upload a completed Roster Template. Otherwise, double click on any field for a specific beneficiary and enter information for any user defined field.

The screenshot shows an 'Edit' dialog box with two columns of input fields. The left column contains: Physician NPI, Custom ID, Patient Consent, Case Manager Name, Service Type, Ever Enrolled in Medicare Advantage, ACO Beneficiary? (checkbox), Criteria for Patient Roster Inclusion, and Nurse Practitioner. The right column contains: Physician, Physician Practice, Date Of Consent (calendar icon), CM Activity (checkbox), Service Type Start Date (calendar icon), Hospital Program Enrollment? (checkbox), Name of ACO, Other Risk Score (dropdown arrow), and Disenrollment Date (calendar icon). 'Save' and 'Cancel' buttons are at the bottom right.

Two User Defined fields, “Date of Consent” and “Disenrollment Date,” are roster-specific entries. Patients may have multiples dates of consent across multiple rosters. Entries into these fields will populate only with a roster loaded. These two fields are used to populate the **Key Performance Metrics Reports** within the Monitoring Module.

## 4.1.1.3 Population Navigator Column Selection and Filters

All column headers can be rearranged or changed by clicking on the column header. Each column header can be filtered using pre-set filters and sorted by ascending or descending order. Move your cursor over a column header and click the triangle to the right on the column name to view the different filter options. To change the sequence of the table column headers, hold and drag the columns to the desired location. The **Touch** and **MPA Attribution Type** columns identify the attribution method(s) that capture each beneficiary.

The screenshot displays the CRISP Medicare CCLF Data Explorer interface. The left sidebar shows the 'Population' menu with 'Population Navigator' selected. The main area shows a table with columns: Name, Gender, DOB, State, Attribution Type, Nurse Practitioner, and Measures. A 'Column Selector' menu is open over the 'Measures' column, showing a list of available measures with checkboxes. The table is displaying 851-875 of 11138 records.

Name	Gender	DOB	State	Attribution Type	Nurse Practitioner	Measures
...	Male	02/03/1947	Out Of State	IP		
...	Female	11/04/1932	Out Of State	IP		
...	Female	03/06/1932	Out Of State	Both		
...	Male	12/01/1935	Out Of State	IP		
...	Female	11/06/1929	Out Of State	IP		
...	Female	04/14/1967	MD	Both		
...	Female	02/26/1926	MD	Both		
...	Male	05/06/1933	MD	IP		
...	Male	10/21/1931	MD	Both		
...	Male	08/18/1949	MD	IP		
...	Female	04/23/1920	MD	IP		
...	Female	11/20/1938	MD	Both		
...	Male	11/03/1932	MD	Both		
...	Male	09/03/1922	MD	IP		
...	Male	12/23/1948	MD	IP		
...	Female	04/09/1934	MD	Both		
...	Male	08/14/1940	MD	IP		
...	Female	08/17/1941	MD	Both		
...	Female	03/31/1960	MD	Both		
...	Female	11/28/1949	MD	IP		
...	Male	08/08/1939	MD	IP		
...	Male	10/07/1952	MD	Both		

Column Selector Menu:

- ☒ Master Patient ID
- ☒ Gender
- ☒ DOB
- ☒ State
- ☒ Attribution Type
- ☒ Nurse Practitioner
- ☒ Expired
- ☒ Physician NPI
- ☒ Physician
- ☒ Physician Practice
- ☒ Patient Consent
- ☒ Date Of Consent
- ☒ Case Manager Name
- ☒ CM Activity
- ☒ Custom ID
- ☒ MRN
- ☒ Most Recent Encounter
- ☒ Date at Attributed Hospital
- ☒ Hospital Program
- ☒ Enrollment
- ☒ Service Type
- ☒ Service Type
- ☒ Start Date
- ☒ Ever Enrolled In
- ☒ Medicare Advantage
- ☒ ACO Beneficiary
- ☒ Name of ACO
- ☒ Criteria for Patient
- ☒ Roster Inclusion
- ☒ Other Risk Score
- ☒ HCC Score
- ☒ Measure
- ☒ Count
- ☒ hAM Score
- ☒ Current Year Inpatient
- ☒ Admission Count
- ☒ Current Year
- ☒ Medical Paid

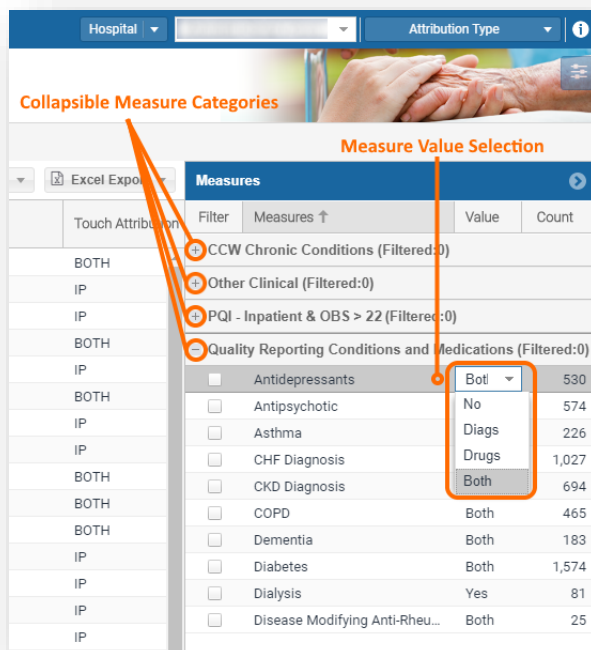
## 4.1.1.4 Measures

The Population Navigator roster can be refined using the **Measures** filter. There are four measure categories - Measure categories:

1. CMS 30 CCW Chronic Conditions – based on CMS’ algorithms for the standard chronic condition flags from Chronic Condition Warehouse
  - a. Defined according to diagnosis and procedure code algorithms:  
<https://www2.ccwdata.org/web/guest/condition-categories-chronic>
2. Other Clinical – includes measures related to prescription drug use and associated payments
  - a. Defined using multiple clinical use databases.
3. PQI – Inpatient & OBS > 24 hours
  - a. 2019 AHRQ Prevention Quality Indicators for inpatient and observation stays greater than 23 hours
  - b. Beneficiaries are flagged for a PQI admission or OBS > 24 hours at **any** hospital, i.e. not limited to the one currently loaded by the user.
4. Quality Reporting Conditions and Medications – includes conditions and medications frequently used when calculating quality measures across a population

Each category is expandable or collapsible using the ‘+’ or ‘-’ symbol on the title bar.

One or more measures can be added to or removed from the roster filter by clicking the checkbox. For each measure, select the value to filter on by clicking on the **Value** dropdown options. Click on **Create Roster** to save the population identified according the measure selection to easily access later. The number to the right of the measure is the count of patients that will remain after applying the filter.

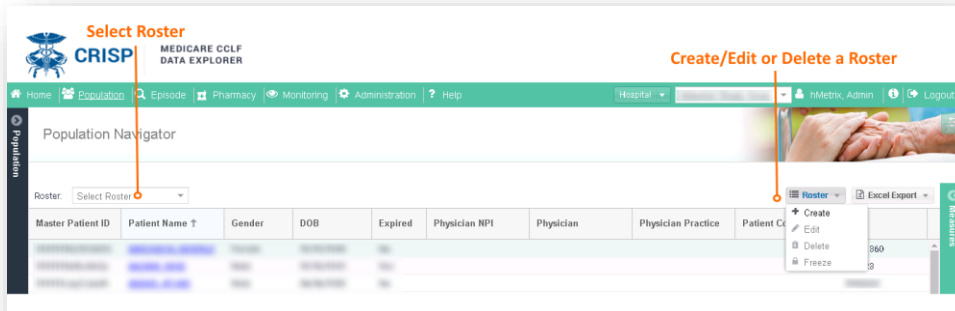


### 4.1.2 Create/Edit/Delete Roster

You can create, edit and delete a Roster easily from the Population Navigator page.

#### 4.1.2.1 Create a Roster

You can create a new roster by clicking on the **Roster >> Create** button.



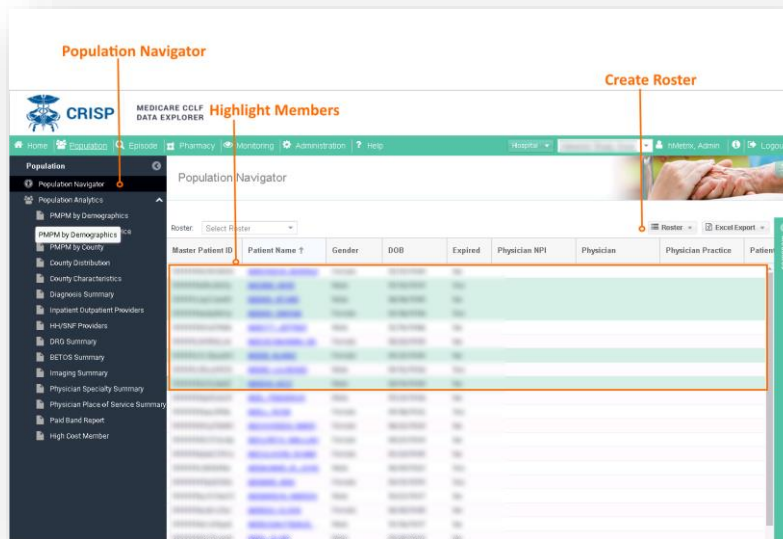
There are four options to create and save a Roster:

#### 1. Roster based on measures

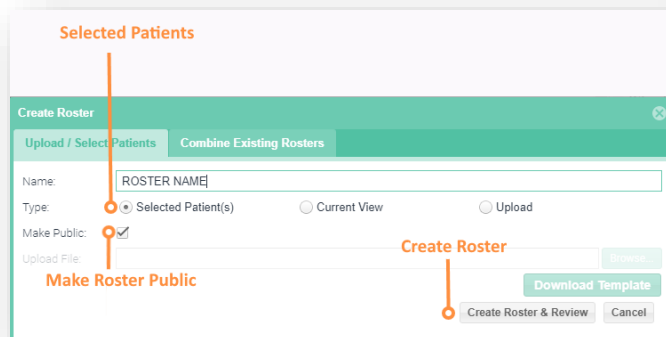
- Filter the Patient list by selecting your measures
- Click on **Roster>> Create Roster**
- Create a name for your roster
- On the **Type**, select **Current View**
- Click on **Create** button

#### 2. Roster for individual patients from the patient list

- From the patient list, you can select one or more patients at a time. To select a group of patients, click on patients while holding the SHIFT key on a PC (or CMD on MAC). Patients can be selected individually by clicking on them while holding the CTRL key on a PC (or CMD on MAC). The selected patient names will be highlighted in green.



- b. Click on **Create Roster**
- c. Enter a name for your roster
- d. For **Type**, select **Selected Patient(s)**
- e. Click on **Create** button



### 3. Upload a Roster

- a. Click on **Create Roster** button from the Population Navigator window, and the Create Roster window will be displayed.
- b. Enter the Roster name
- c. Select **Upload** from the Type options
- d. Click on **Download the Roster Template**
- e. The file will be saved to your computer
- f. Open the template, enter the required values for First Name, Last Name, DOB, and Gender (written out as "Female" or "Male"), and any other optional fields
- g. In the **Create Roster** dialogue, click on the **Browse** button and select the template file to upload
- h. Click on **Create** to save the roster

- i. The new roster will be displayed in **Population Navigator**

The screenshot shows the 'Create Roster' dialog box with the following elements and annotations:

- Make Roster Public:** An annotation pointing to the 'Make Public' checkbox, which is checked.
- Upload:** An annotation pointing to the 'Upload' radio button, which is selected.
- Template:** An annotation pointing to the 'Upload File' text box, which contains 'roster\_template.xlsx'.
- Browse File:** An annotation pointing to the 'Browse...' button next to the 'Upload File' text box.
- Download Template:** An annotation pointing to the 'Download Template' button.
- Create Roster & Review:** A button at the bottom right of the dialog.
- Cancel:** A button at the bottom right of the dialog.

#### 4. Create a Roster Based on Other Existing Rosters

- a. Click on the **Combine Existing Rosters** tab from the Population Navigator window and the Create Roster window will be displayed.
- b. Enter the Roster name
- c. Select the Rosters and Set Operations needed from the options. Examples of set operators are:
  - i. **Union** – the combination of all patients across both rosters. For example, if Roster A contains patients X & Y and Roster B contains patients Y & Z, then Roster A Union Roster B contains patients X, Y & Z
  - ii. **Intersect** – the common patients across both rosters. For example, if Roster A contains patients X & Y and Roster B contains patients Y & Z, then Roster A Intersect Roster B contains patients Y
  - iii. **Complement** – the patients in one roster that are not represented in other rosters. For example, if Roster A contains patients X & Y and Roster B contains patients Y & Z, then Roster A Complement Roster B contains patients X. If the algorithm were reversed (Roster B Complement Roster A), the resulting roster would contain patients Z
  - iv. Brackets / Parenthesis are used to specify the order of operations
- d. Click on **Create Roster & Review** to view and save the roster
- e. The new roster will be displayed in the **Population Navigator**

**Roster Name**

**Set Operators**

**Draft Rule**

**Final Result**

## 5. Making the Roster public

- Check the **Make Public** check box when creating a Roster.
- The Roster will be available to all other users with access to data for the same hospital.

**Make Roster Public**

### 4.1.2.2 Edit a Roster

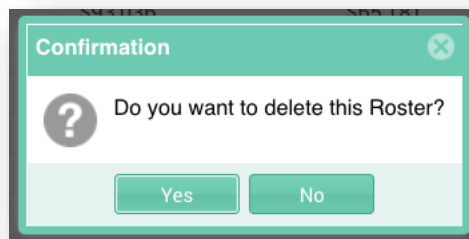
Only the author of a roster may edit it. To edit a roster not created by the present user, create a copy of the roster of interest before editing.

1. On the Population Navigator select the **Roster** name you wish to edit from the dropdown.
2. Click on the **Roster** button and select **Edit** from the options displayed.
3. Edit the name and click **Edit Roster and Review** button to view the patients and save your changes.

### 4.1.2.3 Delete a Roster

Only the author of a roster may delete it.

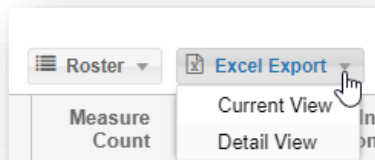
1. On the Population Navigator select the **Roster** name you wish to delete from the dropdown.
2. Click on the Roster button and select **Delete** from the options displayed.
3. **Delete** the name and click Yes button to save your changes.



### 4.1.2.4 Excel Export

You can create an Excel export of the Population Navigator in two ways:


1. **Current View:** This view will create an Excel export for all selected patients identical to the columns seen in the User Interface
2. **Detail View:** This view will create an Excel export for all selected patients with all the available measures included as columns, and all data columns (including those not selected) will be included.






## 4.1.2.5 Loading a roster and beneficiary availability indicator


To load a roster, use the roster selection menu located in the top left corner of a report within MADE. When a roster is loaded, an icon with an "i" will appear to the right of the roster selection menu. Hover over the icon for attribution information for the beneficiaries on the roster. By default, this icon is grey. However, if the user loads a roster with an attribution type(s) selected that does not include all beneficiaries on the roster, this icon will be red. To ensure all beneficiaries on a roster may be included in reports, select all attribution types (see section 8.2.2 for more information).

Roster: 772 - attr\_test  **Gray "i" icon indicates all beneficiaries in the roster are visible according to attribution type(s) selected.**

\* Hover over the info icon to view the MPA attribution distribution for your roster.

Roster: 772 - attr\_test  **Red "i" indicates not all beneficiaries in the roster are visible according to the attribution type(s) selected.**

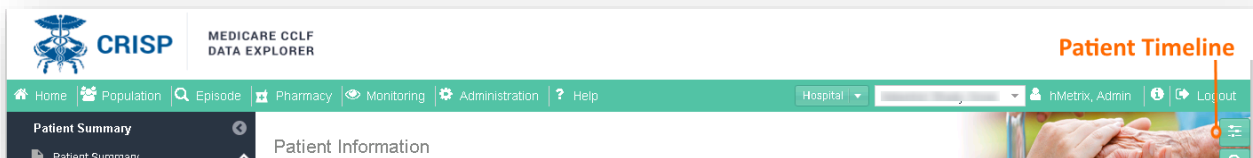
\* Hover over the info icon to view the MPA attribution distribution for your roster.

 **Hovering over the icon shows the distribution of beneficiaries on the roster. This table represents the entire roster regardless of attribution type selections.**

Attribution	Count
Touch Attribution	
IP	232
ED	89
MPA Attribution	
Geographic	72
Academic	0
PHI Sharing through CCA	
PHI Sharing through CCA	0
<b>Total Unique Beneficiaries</b>	<b>256</b>

## 4.2 Patient Timeline

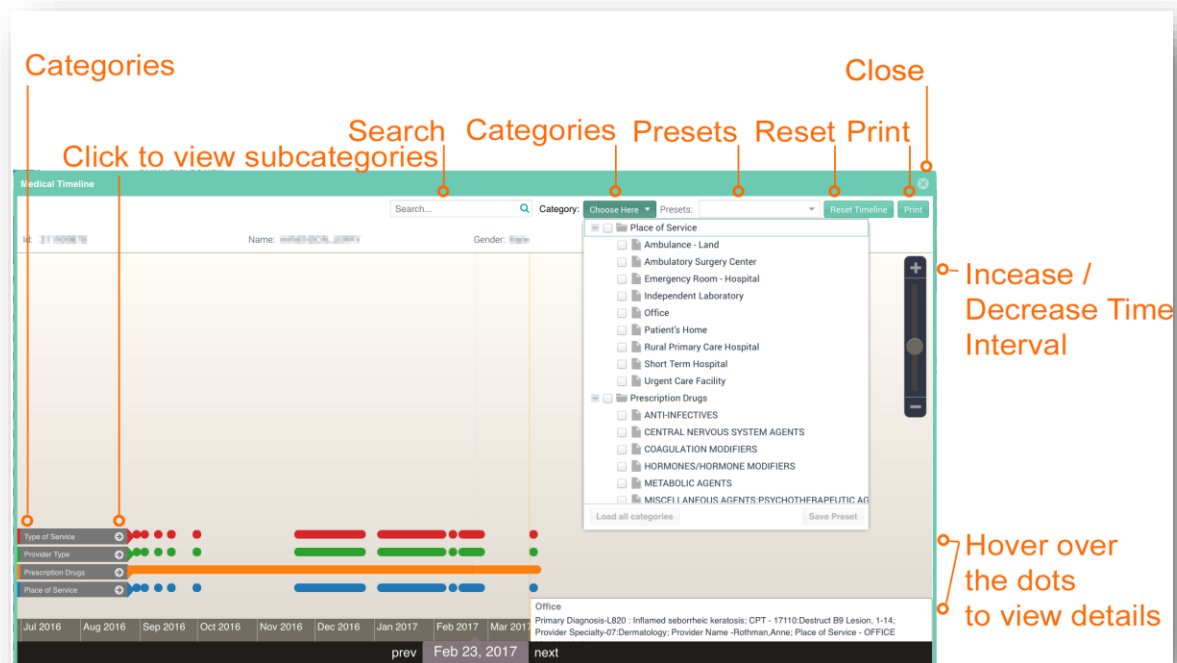
The **Patient Timeline** represents a patient's clinical history chronologically, visually and multi-dimensionally. The patient's clinical history is derived from claims data and other clinical data feeds. The patient timeline is accessible on the top right corner on all **Patient Summary** Reports. Click on the Patient Timeline icon displayed on the top right corner of the patient reports.



Below are some basic functions of the Patient timeline:

- **Drag** the window to any section on the screen
- **Resize** the window by dragging the edges of the window.
- **Increase/Reduce** the time Intervals by clicking on the + or –

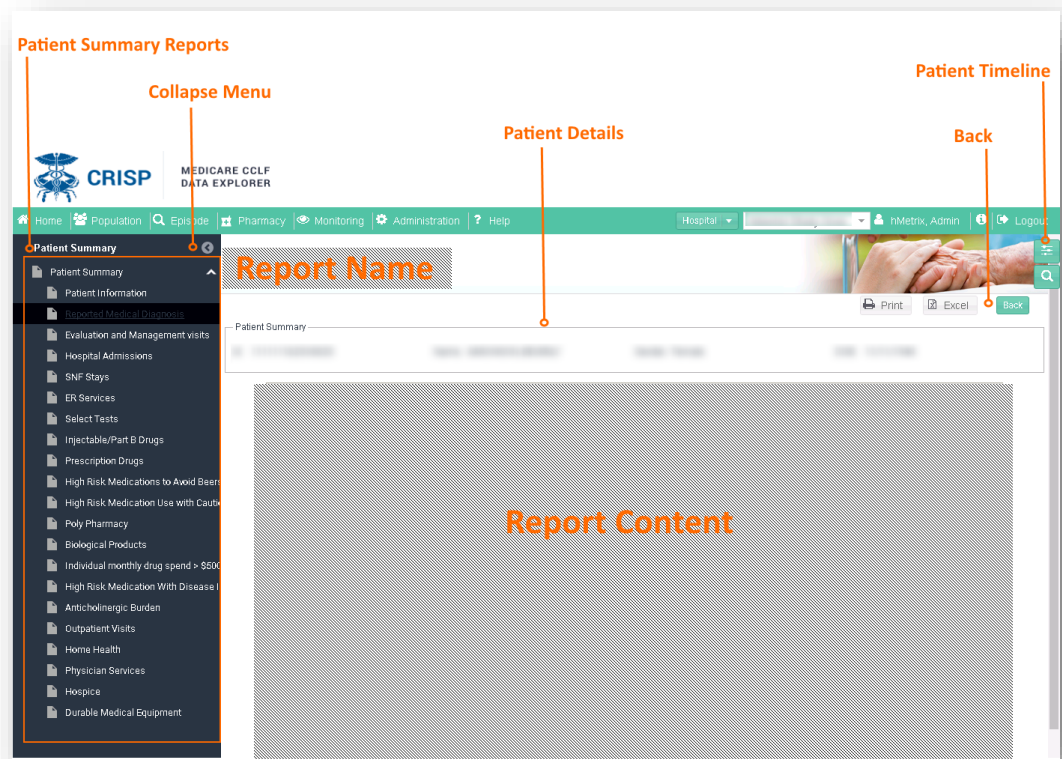
Drill into more detail view by clicking on the **Data Categories**



FEATURES	DESCRIPTION
<b>Event</b>	A record from the Claim or Clinical Data for a patient
<b>Category</b>	Each Event has various attributes such as <ul style="list-style-type: none"> <li>• Type of Service</li> <li>• Provider Type</li> <li>• Place of Service</li> <li>• Prescription Drugs</li> </ul>
<b>Subcategory</b>	Contains further detail about each category <ul style="list-style-type: none"> <li>• Type of Service: Details by Inpatient, Outpatient, Physician</li> <li>• Provider Type: Provider specialty such as Cardiologist and PCP</li> <li>• Place of Service: Location of care received such as Hospital, SNF, physician office</li> <li>• Prescription Drugs: Categories of common prescription drugs</li> </ul>
<b>Search</b>	Search by entering any value in the search box to display search results on the timeline
<b>Presets</b>	Can view pre-determined pre-set views or create new views for easier access. There are two types of presets: <ul style="list-style-type: none"> <li>• System Defined Presets: views that are predefined and cannot be edited by the user</li> <li>• User Defined Presets: views that can be saved by a User of the System</li> </ul>

### 4.3 Patient Summary Reports

The Patient Summary reports are patient-specific reports that are available once a patient is selected from the Population Navigator.



## 4.3.1 Patient Summary

**Patient Summary** report includes the demographic information and other key details about the selected patient. Click on the values to view additional detail report.

*n.b.* The 'Attributed Provider(s)' shows your loaded hospital if the beneficiary is attributed under MPA (with or without a touch) and any hospital the beneficiary has had an IP or ED touch within the current CLLF data.

**Patient Summary**

- Patient Summary
- Patient Information
- Reported Medical Diagnosis
- Evaluation and Management visits
- Hospital Admissions
- SNF Stays
- ER Services
- Select Tests
- Injectable/Part B Drugs
- Prescription Drugs
- High Risk Medications to Avoid Beer
- High Risk Medication Use with Cauti
- Poly Pharmacy
- Biological Products
- Individual monthly drug spend > \$50
- High Risk Medication With Disease
- Anticholinergic Burden
- Outpatient Visits
- Home Health
- Physician Services
- Hospice
- Durable Medical Equipment

**Search Measures are categories for patient details**

**Patient Information**

**Summary**

ID: 1111111111111111	Name: JAMES J. JAMES	Gender: Male
Date of Birth: 12/12/1965	Age: 57	State: Maryland
County: MONTGOMERY	ZIP Code: 20877	Enrollment Status: DISABLED WITH ESRD
Months Enrolled: 36	Current Year Medical Paid: \$69,596	Previous Year Medical Paid: \$58
Current Year Pharmacy Paid: \$35,762	Previous Year Pharmacy Paid: \$2,450	Attributed Provider(s): [Hyperlinked]
hAM Score: 0.2738	Part D Coverage: Yes	

**CCW Chronic Conditions**

Acquired Hypothyroidism: No	Chronic Kidney Disease: Yes	Hip/Pelvic Fracture: No
Acute Myocardial Infarction: No	Chronic Obstructive Pulmonary Disease and Bronchiectasis: No	Hyperlipidemia: Yes
Alzheimer's Disease: No	Colorectal Cancer: No	Hypertension: Yes
Alzheimer's Disease and Related Disorders or Senile Dementia: No	Depression: No	Ischemic Heart Disease: Yes
Anemia: Yes	Diabetes: No	Lung Cancer: No
Asthma: No	Endometrial Cancer: No	Osteoporosis: No
Atrial Fibrillation: No	Female / Male Breast Cancer: No	Prostate Cancer: No
Benign Prostatic Hyperplasia: No	Glaucoma: No	Rheumatoid Arthritis/Osteoarthritis: No
Cataract: No	Heart Failure: No	Stroke / Transient Ischemic Attack: Yes

**Quality Reporting Conditions and Medications**

Antidepressants: <a href="#">Drugs</a>	CHF Diagnosis: No	Dementia: No
Antipsychotic: No	CKD Diagnosis: Yes	Diabetes: No
Asthma: No	COPD: No	Dialysis: No
		Disease Modifying Anti-Rheumatic Medications (DMARDs): <a href="#">Drugs</a>

**Other Clinical**

Anticholinergic Burden: No	High Risk Medication with Renal Dysfunction Beers List: No	Opioids: <a href="#">Yes</a>
Anticoagulants Oral: <a href="#">View</a>		

**Click hyperlinked text for additional information**

## 4.3.2 Reported Medical Diagnosis

**Reported Medical Diagnosis** provides a list of medical diagnosis by year, provider name, and specialty for the selected patient.

Hover over the values to view more details

Reported Medical Diagnosis

Click sort icon to filter rows

Print Excel Bulk

Patient Summary

ID: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Year	Primary Diagnosis	Provider Name	Specialty
	E1065 : Type 1 diabetes mellitus with hyperglycemia	Vivar-Aguirre,Jorge	Internal Medicine
	E1165 : Type 2 diabetes mellitus with hyperglycemia	Iman,Kenny	Physician assistant
	E103299 : Type 1 diab with mild nonp rtrop wit..	PENINSULA REGIONAL MEDICAL CENTER	HOSPITAL PROVIDER
	I420 : Dilated cardiomyopathy	CITY OF SALISBURY	
	J42 : Unspecified chronic bronchitis	Vivar-Aguirre,Jorge	
2016	MS45 : Low back pain	Bounds,Christian	
		Hearne,Steven	
		Chung,David	
		Griffin,Ali	
		Natesan,Vel	Internal Medicine
		Parambi,Joan	Endocrinology, Diabetes & Metabolism
	E119 : Type 2 diabetes mellitus without compli..	Natesan,Usha	Internal medicine
	E559 : Vitamin D deficiency, unspecified	PENINSULA REGIONAL MEDICAL CENTER	HOSPITAL PROVIDER
	E780 : Pure hypercholesterolemia	ACCU REFERENCE MEDICAL LAB, LLC	Clinical laboratory (billing independen..
	E1039 : Type 1 diabetes w oth diabetic opthal..	Bescak,Todd	Ophthalmology
	E1065 : Type 1 diabetes mellitus with hyperglycemia	Doyle,Indre	Nurse practitioner
		PENINSULA REGIONAL MEDICAL CENTER	HOSPITAL PROVIDER
		Parambi,Joan	Endocrinology
		Snitzer,Jack	Endocrinology
		Vivar-Aguirre,Jorge	Internal medicine
	E1142 : Type 2 diabetes mellitus with diabetic polyneuropathy	ACCU REFERENCE MEDICAL LAB, LLC	Clinical laboratory (billing independen..
	I429 : Cardiomyopathy, unspecified	Gunther,Melissa	Physician assistant
	I480 : Paroxysmal atrial fibrillation	Hearne,Steven	Cardiology
	I4891 : Unspecified atrial fibrillation	Keim,Stephen	Cardiology
	J00 : Acute nasopharyngitis [common cold]	ACCU REFERENCE MEDICAL LAB, LLC	Clinical laboratory (billing independen..
	J440 : Chronic obstructive pulmon disease w ac..	Gunther,Melissa	Physician assistant
	MS032 : Other cervical disc degeneration, mid-cervical region	Tawiah,Lawrence	Physician assistant
		DELMARVA SURGERY CENTER, LLC	Ambulatory surgical center
		Dayton-Jones,Conworth	Anesthesiology
	MS127 : Other intervertebral disc displacemen..	Marks,Michael	Diagnostic radiology
	MS136 : Other intervertebral disc degeneratio..	Shrestha,Ajit	Pain Management
	M7989 : Other specified soft tissue disorders	Hogan,Gerard	Diagnostic radiology
	M25432 : Pffixion, left wrist	Gunther,Melissa	Physician assistant

Primary Diagnosis: E1065 : Type 1 diabetes mellitus with hyperglycemia

Speciality: HOSPITAL PROVIDER

Provider Name: PENINSULA REGIONAL MEDICAL CENTER

Year of Date: 2017

## 4.3.3 Evaluation and Management visits

**Evaluation and Management visits** report displays a list of claims for the Evaluation and Management visits by year, specialty, provider name, and primary and secondary diagnoses for the selected patient.

Evaluation and Management visits

Click sort icon to filter rows

Print Excel Back

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Evaluation and Management Visits

Date	CPT	Specialty	Provider Name	Place of Service	Primary Diagnosis	Secondary Diagnosis
9/21/2012	99212	HOSPITAL PROVIDER	UNIVERSITY OF MD BAL...		E1165 : Type 2 diabetes mellitus with hyper...	E1151
9/21/2012	99214	Internal medicine	Parambil,Nisha	OUTPATIENT HOSPIT..	E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99215	Internal medicine	Young-Hyman,Paul	OFFICE	I509 : Heart failure, unspecified	
9/21/2012	99213	Pulmonary disease	Park,Matthew	OFFICE	J4530 : Mild persistent asthma, uncomplica..	R0602
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	I4891 : Unspecified atrial fibrillation	
9/21/2012	99213	Podiatry	Cange,Darlyne	OFFICE	E1051 : Type 1 diabetes w diabetic peripher..	L603
9/21/2012	99212	HOSPITAL PROVIDER	UNIVERSITY OF MD BAL...		E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99214	Internal medicine	Parambil,Nisha	OUTPATIENT HOSPIT..	E1121 : Type 2 diabetes mellitus with diabe..	I10
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	E119 : Type 2 diabetes mellitus without co..	
9/21/2012	99213	Pulmonary disease	Park,Matthew	OFFICE	J4530 : Mild persistent asthma, uncomplica..	J918
9/21/2012	99203	Podiatry	Cange,Darlyne	OFFICE	E1051 : Type 1 diabetes w diabetic peripher..	L603
9/21/2012	99212	HOSPITAL PROVIDER	UNIVERSITY OF MD BAL...		E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99214	Internal medicine	Parambil,Nisha	OUTPATIENT HOSPIT..	E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99214	Family practice	Izzi,Stephan	OFFICE	I4891 : Unspecified atrial fibrillation	I509
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	I10 : Essential (primary) hypertension	
9/21/2012	99204	Nurse practitioner	Hester,Belinda	OFFICE	M47817 : Spondyls w/o myelopathy or radic..	G894
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	R5383 : Other fatigue	I481
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	J449 : Chronic obstructive pulmonary disea..	
9/21/2012	99212	HOSPITAL PROVIDER	UNIVERSITY OF MD BAL...		E1165 : Type 2 diabetes mellitus with hyper...	Z7901
9/21/2012	99214	Internal medicine	Parambil,Nisha	OUTPATIENT HOSPIT..	E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99202	HOSPITAL PROVIDER	UNIVERSITY OF MD BAL...		E119 : Type 2 diabetes mellitus without co..	Z7901
9/21/2012	99204	Internal medicine	Parambil,Nisha	OUTPATIENT HOSPIT..	E1165 : Type 2 diabetes mellitus with hyper...	I10
9/21/2012	99204	Pulmonary disease	Han,William	OFFICE	R0602 : Shortness of breath	J4540
9/21/2012	99215	Internal medicine	Young-Hyman,Paul	OFFICE	42731 : Atrial fibrillation	
9/21/2012	99213	Family practice	Izzi,Stephan	OFFICE	42731 : Atrial fibrillation	25000

## 4.3.4 Hospital Admissions

**Hospital Admissions** report displays a list of claims for hospital admissions by provider name, length of stay (LOS), discharge status and primary and secondary diagnoses for the selected patient.

Hospital Admissions

Click sort to filter the rows below

Print Excel Back

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Hospital Admissions

Date	Provider Name	LOS	Discharge Status	Primary Diagnosis	Secondary Diagnosis
9/21/2012	UNIVERSITY OF MD BALTO WASHINGT..	4	Discharged/transferred to home c..	I5032 : Chronic diastolic (congestive) heart f..	I472
9/21/2012	UNIVERSITY OF MD BALTO WASHINGT..	2	Discharged to home/self care	I130 : Hyp hrt & chr kdny dis w hrt fail and st..	D689
9/21/2012	UNIVERSITY OF MD BALTO WASHINGT..	6	Discharged/transferred to home c..	I5023 : Acute on chronic systolic (congestive..	I472
9/21/2012	UNIVERSITY OF MD BALTO WASHINGT..	4	Discharged/transferred to home c..	J90 : Pleural effusion, not elsewhere classifi..	E46

## 4.3.5 Admissions with PQI

The **Admissions with PQI** report displays all inpatient admissions and observation stays > 23 hours that qualify for one or more PQI measures. The report includes the claim from and through dates, the type of admission (inpatient or OBS > 24), the provider name, LOS, and the PQI measures for each stay.

Admissions with PQI					
Claim From Date	Claim Through Date	Admission Type	Provider Name	LOS	PQI Measures
		OBS>24		3	PQI 14 Uncontrolled Diabetes Admission Rate; PQI 90 Prevention Quality Overall Composite; PQI 92 Prevention Quality Chronic Composite; PQI 93 Prevention Quality Diabetes Composite;
		OBS>24		1	PQI 14 Uncontrolled Diabetes Admission Rate; PQI 90 Prevention Quality Overall Composite; PQI 92 Prevention Quality Chronic Composite; PQI 93 Prevention Quality Diabetes Composite;
		OBS>24		2	PQI 01 Diabetes Short-Term Complications Admission Rate; PQI 90 Prevention Quality Overall Composite; PQI 92 Prevention Quality Chronic Composite; PQI 93 Prevention Quality Diabetes Composite;
		IP		4	PQI 08 Heart Failure Admission Rate; PQI 90 Prevention Quality Overall Composite; PQI 92 Prevention Quality Chronic Composite;

## 4.3.6 SNF Stays

**SNF Stays** report displays a list of claims for skilled nursing facility (SNF) admissions by provider name, length of stay (LOS) discharge status and primary and secondary diagnoses for the selected patient.

SNF Stays

Click sort icon to filter rows

Print Excel Back

Patient Summary

Id:

Name:

Gender:

DOB:

SNF Stays


Date	Provider Name	LOS	Discharge Status	Primary Diagnosis	Secondary Diagnosis
	PATAPSCO VALLEY CENTER	5	Discharged to home/self c..	I25119 : Athscl heart disease of nat..	M6281
	PATAPSCO VALLEY CENTER	25	Still patient	I25119 : Athscl heart disease of nat..	M6281
	COURTLAND, LLC	16	Discharged to home/self c..	I222 : Subsequent non-ST elevation..	I509



## 4.3.7 ER Services

**ER Services** report displays a list of claims for ER visits by CPT codes, provider name, place of service, and primary and secondary diagnoses for the selected patient.

ER Services



Print

Excel

Back

Click sort to filter rows

Patient Summary

Id: [REDACTED]

Name: [REDACTED]

Gender: [REDACTED]

DOB: [REDACTED]

ER Services

Date	CPT-Description	Provider Name	Place of Service	Primary Diagnosis	Secondary Diagnosis
[REDACTED]	71010-Chest X-Ray 1 View Frontal	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	80053-Comprehen Metabolic Panel	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	83735-Assay Of Magnesium	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	83880-Assay Of Natriuretic Peptide	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	84100-Assay Of Phosphorus	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	84484-Assay Of Troponin, Quant	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	85025-Complete Cbc W/Auto Diff Wbc	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	85610-Prothrombin Time	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	85730-Thromboplastin Time, Partial	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	99281-Emergency Dept Visit	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	99285-Emergency Dept Visit	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	G0378-Hospital Observation Per Hr	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	J1940-Furosemide Injection	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
	Null	UNIVERSITY OF MARYLAND MEDI..		J90 : Pleural effusion,...	J45909
[REDACTED]	36415-Routine Venipuncture	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	80047-Metabolic Panel Ionized Ca	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	81001-Urinalysis, Auto W/Scope	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	82948-Reagent Strip/Blood Glucose	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	85025-Complete Cbc W/Auto Diff Wbc	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	85610-Prothrombin Time	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019
	99284-Emergency Dept Visit	MEASE COUNTRYSIDE HOSPITAL		25080 : DMII oth nt st..	4019

## 4.3.8 Select Tests

**Select Tests** report displays a list of claims for select tests by CPT codes, provider name, and place of service for the selected patient.

Select Tests

Click sort icon to filter rows

Print Excel Back

Patient Summary

ID: Name: Gender: DOB:

Date	CPT-Description	Provider Name	Place of Service
	71250-Ct Thorax W/O Dye	Novak,Zina	INPATIENT HOSPITAL
	70450-Ct Head/Brain W/O Dye	Becker,Randy	INPATIENT HOSPITAL
	71250-Ct Thorax W/O Dye	Jarrell,Kevin	INPATIENT HOSPITAL
	71250-Ct Thorax W/O Dye	Taj,Sabir	OUTPATIENT HOSPITAL
		UNIVERSITY OF MD BALTO WASHINGTON MEDICAL CENTER	
	70450-Ct Head/Brain W/O Dye	Halleran,William	OUTPATIENT HOSPITAL
		MEASE COUNTRYSIDE HOSPITAL	

## 4.3.9 Injectable/Part B Drugs

**Injectable/Part B Drugs** report displays a list of claims for injectable Part B drugs by CPT codes, provider name, primary and secondary diagnoses, place of service, and quantity for the selected patient.

Injectable/Part B Drugs

Click sort icon to filter rows

Print Excel Back

Patient Summary

ID: Name: Gender: DOB:

Date	CPT-Description	Provider Name	Primary Diagnosis	Secondary Diagnosis	Place of Service	Quantity
	J1940-Furosemide Injection	UNIVERSITY OF MARYLAND MEDICAL CENTER	J90 : Pleural effusion, not elsewhere cla..	J45909		2
	J3420-Vitamin B12 Injection	Zeien,Timothy	4011 : Benign hypertension	2720	OFFICE	1
	J3420-Vitamin B12 Injection	Zeien,Timothy	4011 : Benign hypertension	5859	OFFICE	1

## 4.3.10 Prescription Drugs

**Prescription Drugs** report displays a list of prescription drug claims by medication characteristic (name, strength, dosage, quantity and days supply) as well as the provider name, for the selected patient.

Prescription Drugs

Click sort icon to filter rows

Print Excel Back

Patient Summary

ID: Name: Gender: DOB:

Date	Medication Dispensed	BRAND/generic	Strength Description	Dosage Form	Prescriber Name	Quantity	Days Supply
	potassium chloride	KLOR-CON M20	20 mEq	tablet, extended release	Izzi,Stephan	90	90
	simvastatin	simvastatin	5 mg	tablet	Izzi,Stephan	30	30
	ramipril	ramipril	5 mg	capsule	Izzi,Stephan	90	90
	furosemide	furosemide	40 mg	tablet	Izzi,Stephan	30	30
	warfarin	warfarin sodium	2 mg	tablet	Izzi,Stephan	90	90
	fluticasone-salmeterol	ADVAIR DISKUS	250 mcg-50 mcg	powder	Park,Matthew	60	30
	rivaroxaban	XARELTO	15 mg	tablet	Jain,Samir	30	30
	simvastatin	simvastatin	5 mg	tablet	Izzi,Stephan	30	30
	furosemide	furosemide	40 mg	tablet	Izzi,Stephan	30	30
	insulin glargine	LANTUS	100 units/mL	solution	Parambil,Nisha	10	90
	simvastatin	simvastatin	5 mg	tablet	Izzi,Stephan	30	30
	metoprolol	metoprolol succi...	50 mg	tablet, extended release	Izzi,Stephan	90	90
	simvastatin	simvastatin	5 mg	tablet	Izzi,Stephan	30	30
	furosemide	furosemide	40 mg	tablet	Izzi,Stephan	30	30
	warfarin	warfarin sodium	2 mg	tablet	Izzi,Stephan	90	90
	ramipril	ramipril	5 mg	capsule	Izzi,Stephan	90	90
	furosemide	furosemide	40 mg	tablet	Park,Matthew	30	30

## 4.3.11 High Risk Medication to Avoid Beers List

**High-Risk Medication Avoid** report displays a list of claims for high risk medications (according to Beers criteria) by medication characteristic (name, strength, dosage, quantity and days supply) and provider name for the selected patient.

High Risk Medications to Avoid Beers List

Click sort icon to filter rows

Print Excel Back

Patient Summary

ID: Name: Gender: DOB:

Date	Medication Dispensed	Strength Description	Dosage Form	Prescriber Name	Included Lists	Days Supply	Quantity
	insulin lispro	100 units/mL	solution	Parambil,Nisha	Beers List	30	10
	insulin lispro	100 units/mL	solution	Van Orden,Deborah	Beers List	30	10
	insulin isophane-insulin r...	human recombinant 70 un...	suspension	Parambil,Nisha	Beers List	30	30

## 4.3.12 High Risk Medication - Use with Caution Beers List

**High Risk Medication - Use with Caution** report displays a list of high risk medications to use with caution (according to Beers criteria) by medication characteristic (name, strength, dosage, quantity and days supply) and provider name for the selected patient.

High Risk Medication Use with Caution Beers List

Click sort icon to filter rows

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

High Risk Medication Use with Caution Beers List

Date	Medication Dispensed	Strength	Dosage Form	Prescriber Name	Included Lists	Days Supply	Quantity
[REDACTED]	furosemide	40 mg	tablet	Izzi, Stephan		30	30
[REDACTED]	furosemide	40 mg	tablet	Izzi, Stephan		30	30
[REDACTED]	furosemide	40 mg	tablet	Park, Matthew		30	30
[REDACTED]	furosemide	40 mg	tablet	Izzi, Stephan		30	30
[REDACTED]	furosemide	40 mg	tablet	Park, Matthew		30	30
[REDACTED]	furosemide	40 mg	tablet	Cudjoe, Patricia		30	30
[REDACTED]	torsemide	20 mg	tablet	Izzi, Stephan		30	30
[REDACTED]	torsemide	20 mg	tablet	Izzi, Stephan		30	30

## 4.3.13 Poly Pharmacy

**Poly Pharmacy** report displays a list of poly pharmacy ( $\geq 7$  concurrent prescriptions) claims by medication characteristic (name, strength, dosage, quantity and days supply) and provider name for the selected patient.

Poly Pharmacy

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Poly Pharmacy

Date	Medication Dispensed	Strength	Dosage Form	Prescriber Name	Quantity	Days Supply
[REDACTED]	metoprolol	25 mg	tablet, extended...	Minkove, Judah	45	90
[REDACTED]	atorvastatin	10 mg	tablet	Minkove, Judah	90	90
[REDACTED]	citalopram	20 mg	tablet	Minkove, Judah	90	90
[REDACTED]	gabapentin	300 mg	capsule	Minkove, Judah	180	90
[REDACTED]	lisinopril	2.5 mg	tablet	Minkove, Judah	90	90
[REDACTED]	midodrine	5 mg	tablet	Minkove, Judah	270	90
[REDACTED]	pantoprazole	40 mg	delayed release ...	Minkove, Judah	90	90
[REDACTED]	ticagrelor	90 mg	tablet	Minkove, Judah	180	90

## 4.3.14 Biological Products

**Biological Products** report displays a list of claims for biological products by drug characteristic (name, strength, dosage, quantity and days supply) and prescriber provider name for a selected patient.

Biological Products							
Date	Product Name	Proprietary Name	Strength Description	Dosage Form	Prescriber Name	Amount Paid	Quantity
	becaplermin topical	Regranex	0.01%	gel		\$1,237.90	15

## 4.3.15 Individual Monthly Drug Spend > \$500

The **Individual Monthly Drug Spend >\$500** report displays a list of all claims for prescription drugs for selected patients who have an average monthly out of pocket drug spend for prescription drugs that exceeds \$500. Variables contained in the report include by medication characteristic (name, strength, dosage, quantity and days supply) and provider name.

Month/Year	Date	Medication Dispensed	BRAND/generic	Strength Description	Dosage Form	Prescriber Name	Quantity	Days Supply	Amount Paid
12/2016	12/15/2016	insulin glargine	LANTUS	100 units/mL	solution	Van Orden, Deborah	10	30	\$345.21
12/2016	12/15/2016	insulin lispro	HUMALOG	100 units/mL	solution	Van Orden, Deborah	10	30	\$349.69
12/2016	12/15/2016	prednisONE	prednisone	10 mg	tablet	Van Orden, Deborah	42	8	\$10.56
12/2016	12/15/2016	insulin isophane-I.	HUMULIN 70/30	human recombina..	suspension	Parambil, Nisha	30	30	\$531.24
12/2016	12/15/2016	rivaroxaban	XARELTO	15 mg	tablet	Jain, Samir	30	30	\$512.62
12/2016	12/15/2016	fluticasone-salme..	ADVAIR DISKUS	250 mcg-50 mcg	powder	Han, William	60	30	\$464.90
12/2016	12/15/2016	fluticasone-salme..	ADVAIR DISKUS	250 mcg-50 mcg	powder	Han, William	60	30	\$464.90
12/2016	12/15/2016	fluticasone-salme..	ADVAIR DISKUS	250 mcg-50 mcg	powder	McIlmoyle, Elizabeth	60	30	\$464.90
12/2016	12/15/2016	fluticasone-salme..	ADVAIR DISKUS	250 mcg-50 mcg	powder	Park, Matthew	60	30	\$464.90
12/2016	12/15/2016	fluticasone-salme..	ADVAIR DISKUS	250 mcg-50 mcg	powder	Park, Matthew	60	30	\$464.90
12/2016	12/15/2016	insulin glargine	LANTUS	100 units/mL	solution	Parambil, Nisha	10	90	\$439.21
12/2016	12/15/2016	insulin lispro	HUMALOG	100 units/mL	solution	Parambil, Nisha	10	30	\$349.69
12/2016	12/15/2016	metoprolol	metoprolol succi..	50 mg	tablet, extended r..	Izzi, Stephan	90	90	\$129.24
12/2016	12/15/2016	simvastatin	simvastatin	5 mg	tablet	Izzi, Stephan	30	30	\$69.42
12/2016	12/15/2016	ramipril	ramipril	5 mg	capsule	Izzi, Stephan	90	90	\$185.13
12/2016	12/15/2016	albuterol	VENTOLIN HFA	90 mcg/inh	aerosol	Park, Matthew	18	30	\$109.62
12/2016	12/15/2016	warfarin	warfarin sodium	2 mg	tablet	Izzi, Stephan	90	90	\$74.84
12/2016	12/15/2016	warfarin	warfarin sodium	2 mg	tablet	Izzi, Stephan	90	90	\$74.84
12/2016	12/15/2016	simvastatin	simvastatin	5 mg	tablet	Izzi, Stephan	30	30	\$69.42

## 4.3.16 High-Risk Medication with Disease Interaction

**High Risk Medication with Disease Interaction** report displays a list of claims for medications with a high risk of interaction with the selected patient's disease. Variables contained in the report include by medication characteristic (name, strength, dosage, quantity and days supply) and provider name.

High Risk Medication With Disease Interaction

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Click sort icon to filter rows

Date	Medication Dispensed	Strength Description	Dosage Form	Quantity	Days Supply	Prescriber Name	Included Lists
[REDACTED]	Ibuprofen	600 mg	tablet	20	3	Kim, Hyosik	Beers List

## 4.3.17 Anticholinergic Burden

**Anticholinergic Burden** report provides a list of claims for Anticholinergic burden for the selected patient.

Anticholinergic Burden

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: Female DOB: [REDACTED]

Date	Drug Name	BRAND/generic	Strength Description	Dosage Form	ACB Score	Prescriber Name
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	traMADol	TraMADol Hydrochloride	50 mg	tablet	1	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	traMADol	TraMADol Hydrochloride	50 mg	tablet	1	[REDACTED]
[REDACTED]	LORazepam	Lorazepam	0.5 mg	tablet	1	[REDACTED]
[REDACTED]	predniSONE	PredniSONE	10 mg	tablet	1	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	meclizine	Meclizine Hydrochloride	25 mg	tablet	3	[REDACTED]
[REDACTED]	sertraline	Sertraline Hydrochloride	50 mg	tablet	1	[REDACTED]

### 4.3.18 Outpatient Visits

**Outpatient Visits** report displays a list of claims for services received during an outpatient visit by CPT code, provider name and primary and secondary diagnoses for the selected patient.

Outpatient Visits

Click sort icon to filter rows

Print Excel Back

Patient Summary

Id: Name: Gender: DOB:

Outpatient Visits

Date	CPT-Description	Provider Name	Primary Diagnosis	Secondary Diagnosis
83036-Glycosylated Hemoglobin Test	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	E1151	
99212-Office/Outpatient Visit, Est	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	E1151	
83036-Glycosylated Hemoglobin Test	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	I10	
99212-Office/Outpatient Visit, Est	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	I10	
83036-Glycosylated Hemoglobin Test	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	I10	
99212-Office/Outpatient Visit, Est	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	I10	
83036-Glycosylated Hemoglobin Test	UNIVERSITY OF MD BALTO WASHI..	E1165 : Type 2 diabetes mellitus with hyperglyce..	I10	
71010-Chest X-Ray 1 View Frontal	UNIVERSITY OF MD BALTO WASHINGTON MEDICAL CENTER	J45909		
80053-Comprehen Metabolic Panel	UNIVERSITY OF MARYLAND MEDI..	J45909		
83735-Assay Of Magnesium	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
83880-Assay Of Natriuretic Peptide	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
84100-Assay Of Phosphorus	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
84484-Assay Of Troponin, Quant	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
85025-Complete Cbc W/Auto Diff Wbc	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
85610-Prothrombin Time	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
85730-Thromboplastin Time, Partial	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
99281-Emergency Dept Visit	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
99285-Emergency Dept Visit	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
G0378-Hospital Observation Per Hr	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
J1940-Furosemide Injection	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
Null	UNIVERSITY OF MARYLAND MEDI..	J90 : Pleural effusion, not elsewhere classified	J45909	
32555-Aspirate Pleura W/ Imaging	UNIVERSITY OF MD BALTO WASHI..	J90 : Pleural effusion, not elsewhere classified	J8410	
71010-Chest X-Ray 1 View Frontal	UNIVERSITY OF MD BALTO WASHI..	J90 : Pleural effusion, not elsewhere classified	J8410	
71250-Ct Thorax W/O Dye	UNIVERSITY OF MD BALTO WASHI..	J90 : Pleural effusion, not elsewhere classified	J8410	
82945-Glucose Other Fluid	UNIVERSITY OF MD BALTO WASHI..	J90 : Pleural effusion, not elsewhere classified	J8410	

### 4.3.19 Home Health

**Home Health** report displays a list of claims for skilled home health episodes of care.

Home Health

Print Excel Back

Patient Summary

Id: Name: Gender: Male DOB:

Home Health

Date	CPT-Description	Provider Name	Primary Diagnosis	Secondary Diagnosis
Null			E119 : Type 2 diabetes mellitus ..	I10
1BHK1-BHKT			E119 : Type 2 diabetes mellitus ..	I10
G0162-Hhc Rn E & M Plan Svs, 15 Min			E119 : Type 2 diabetes mellitus ..	I10
G0299-Hhc Hospice Of Rn Ea 15 Min			E119 : Type 2 diabetes mellitus ..	I10
Q5001-Hospice Or Home Hlth In Home			E119 : Type 2 diabetes mellitus ..	I10

## 4.3.20 Physician Services

**Physician Services** report displays a list of physician services by CPT codes, provider name, place of service and primary and secondary diagnoses for the selected patient.

Physician Services

Click sort icon to filter rows

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: [REDACTED] DOB: [REDACTED]

Date	CPT-Description	Provider Name	Place of Service	Primary Diagnosis	Secondary Diagnosis
	36415-Routine Venipuncture	QUEST DIAGNOSTICS INCORPOR.	INDEPENDENT LABORAT..	D6832 : Hemorrhagic disord ..	Z7901
	85610-Prothrombin Time	QUEST DIAGNOSTICS INCORPOR.	INDEPENDENT LABORAT..	D6832 : Hemorrhagic disord ..	Z7901
	99214-Office/Outpatient Visit, Est	Parambil,Nisha	OUTPATIENT HOSPITAL	E1165 : Type 2 diabetes mell..	I10
	99215-Office/Outpatient Visit, Est	Young-Hyman,Paul	OFFICE	I509 : Heart failure, unspecif..	
	99239-Hospital Discharge Day	Delgado,Margaret	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	R05
	32555-Aspirate Pleura W/ Imaging	Jarrell,Kevin	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	71010-Chest X-Ray 1 View Frontal	Porter,David	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	88104-Cytopath FI Nongyn, Smears	Hoover,Lola	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	88305-Tissue Exam By Pathologist	Hoover,Lola	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	71020-Chest X-Ray 2vw Frontal & latl	Saini,Charul	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	99223-Initial Hospital Care	Mukherjee,Ratnakar	INPATIENT HOSPITAL	R0602 : Shortness of breath	I10
	99232-Subsequent Hospital Care	Delgado,Margaret	INPATIENT HOSPITAL	E876 : Hypokalemia	R05
	99233-Subsequent Hospital Care	Park,Matthew	INPATIENT HOSPITAL	J918 : Pleural effusion in oth..	I5032
	99233-Subsequent Hospital Care	Park,Matthew	INPATIENT HOSPITAL	J918 : Pleural effusion in oth..	I5032
	99233-Subsequent Hospital Care	Deterding,Laura	INPATIENT HOSPITAL	R05 : Cough	E8770
	71020-Chest X-Ray 2vw Frontal & latl	Keramati,Bijan	INPATIENT HOSPITAL	R0602 : Shortness of breath	
	88104-Cytopath FI Nongyn, Smears	Hoover,Lola	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	88305-Tissue Exam By Pathologist	Hoover,Lola	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	
	93010-Electrocardiogram Report	Badro,Bassim	INPATIENT HOSPITAL	I509 : Heart failure, unspecif..	J90
	93306-Tte W/Doppler, Complete	Roy,Debajit	INPATIENT HOSPITAL	I509 : Heart failure, unspecif..	J90
	99223-Initial Hospital Care	Davidson,William	INPATIENT HOSPITAL	J918 : Pleural effusion in oth..	I5032
		Teklemichael,Tigist	INPATIENT HOSPITAL	J90 : Pleural effusion, not els..	I110

## 4.3.21 Hospice

**Hospice** report displays a list of claims for Hospice services for the selected patient.

Hospice

Patient Summary

Id: [REDACTED] Name: [REDACTED] Gender: Male DOB: [REDACTED]

Date	CPT-Description	Provider Name	Primary Diagnosis	Secondary Diagnosis
	G0299-Hhs/Hospice Of Rn Ea 15 Min		C61 : Malignant neoplasm of prostate	I25709
	Q5001-Hospice Or Home Hlth In Home		C61 : Malignant neoplasm of prostate	I25709



4.3.22 Durable Medical Equipment

**Durable Medical Equipment** report displays a list of claims for Durable Medical Equipment (DME) by CPT code, provider name, place of service, specialty, and primary and secondary diagnoses for the selected patient.

Durable Medical Equipments

Click sort icon to filter rows

PrintExcelBack

Patient Summary

Durable Medical Equipments

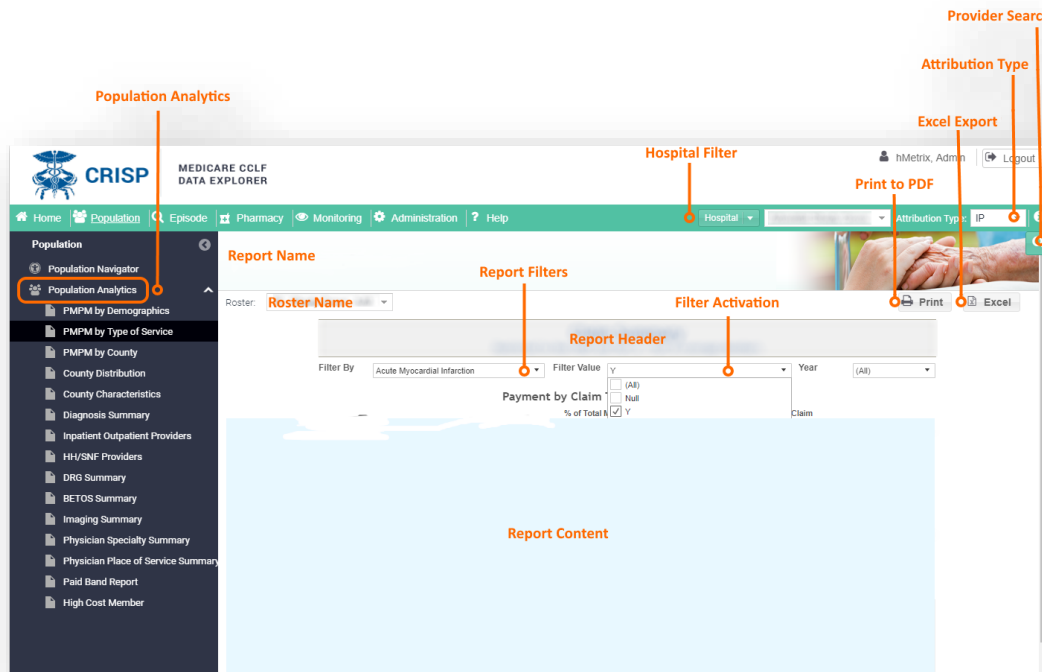
Date	CPT-Description	Provider Name	Place of Service	Specialty	Primary Diagnosis	Secondary Diagnosis
11/11/2015	A4253-Blood Glucose/Reagent Strips	Parambi,Nisha	PATIENT'S HOME	Endocrinolo..	Endocrinology, Diabetes & Metabolism	
11/11/2015	A4253-Blood Glucose/Reagent Strips	Parambi,Nisha	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Parambi,Nisha	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	E0607-Blood Glucose Monitor Home	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		
11/11/2015	A4253-Blood Glucose/Reagent Strips	Janicka,Ania	PATIENT'S HOME	Endocrinolo..		

Medicare Analytics CCLF User Manual

52 | Page

## 4.4 Population Analytics

The Population Analytics reports are described in further detail in this section. For detailed information on how the population assignments are determined in MADE, refer to the section in CCLF Data Basics titled “Population Assignment.”

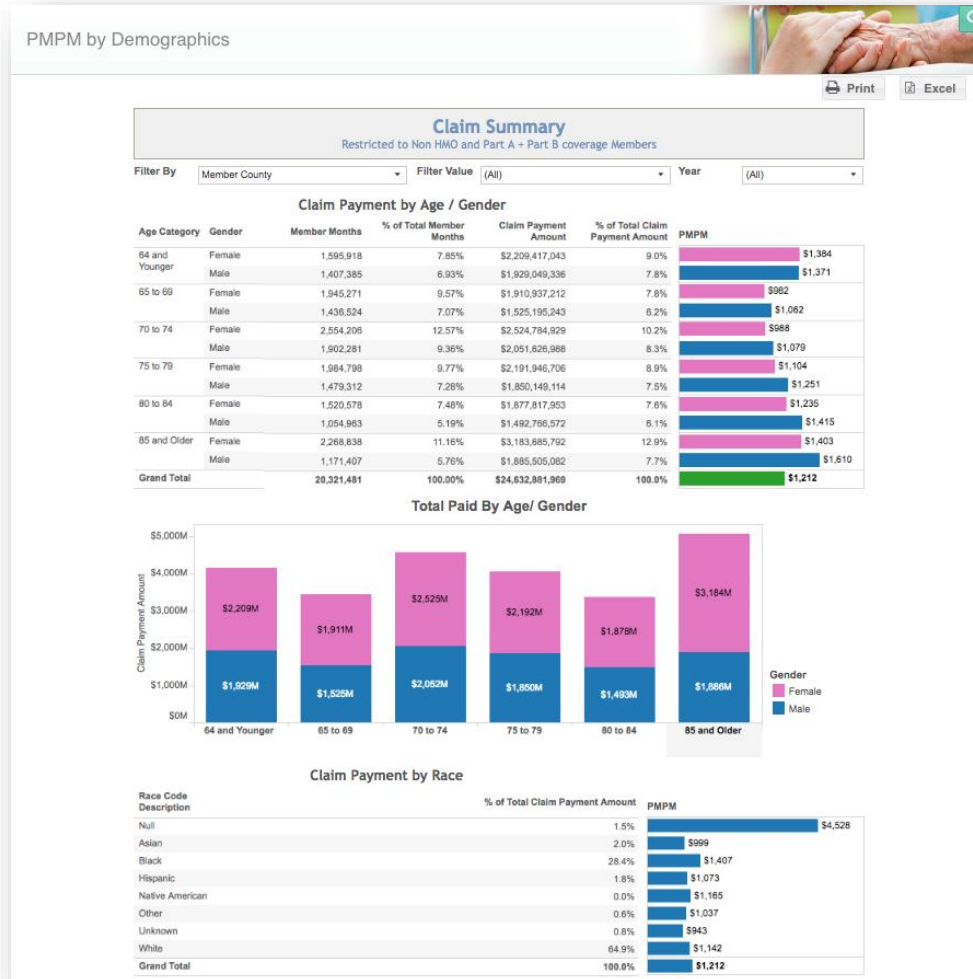


REPORT FUNCTIONS	DESCRIPTION
Report Name	The report name is always displayed on the left-hand corner. On the side menu click the report name to navigate across reports.
Report Header (Chart Name)	Each report may contain subset reports. The header contains the report title and a short description of the report.
Report Content	The report content area displays the results for the specific report header.
Report Filters	All reports can be filtered using several criteria and values. Choose from <b>Filter By</b> to view reports filtered on criteria such as member county, age, gender, disease type, high-cost indicators, etc. Select the <b>Value Filter</b> to further refine the filtered data by specific value (e.g., Male within the Gender filter) Reports can also be filtered by time period (in years)
Filter Activation	Selects which value to include within the Report Filter using the <b>Filter Value</b> drop down.
Hospital Filters	The hospital filter displays a list of hospitals to view the population for all corresponding reports.
Print PDF	Click on the PDF button to export the report into a PDF format.
Excel Export	Click on the Excel button to export the report details into Excel workbook.

## 4.4.1 PMPM by Demographics

**PMPM by Demographics** illustrates the member count and payment information based on demographics such as race, gender, and age. This report shows:

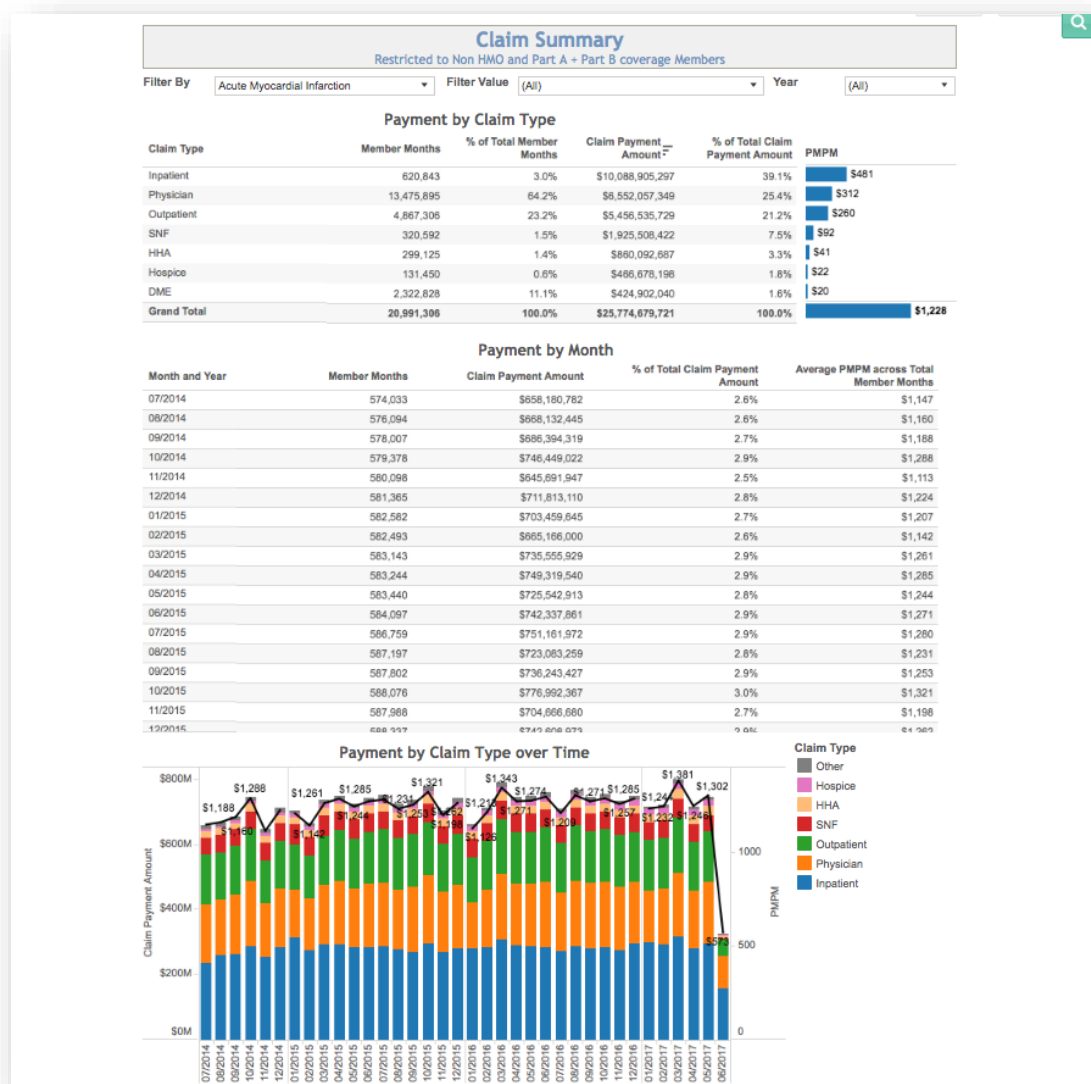
<b>Claim Payment by Age / Gender</b>	<b>Presents the member month count, total payment amount and average PMPM by age group and gender.</b>
<b>Total Paid by Age / Gender</b>	Stacked bar charts showing the total claim payment amount by age group. Each bar is also split by gender.



## 4.4.2 PMPM by Type of Service

**PMPM by Type of Service** contains details about the population by the type of service received. This report shows:

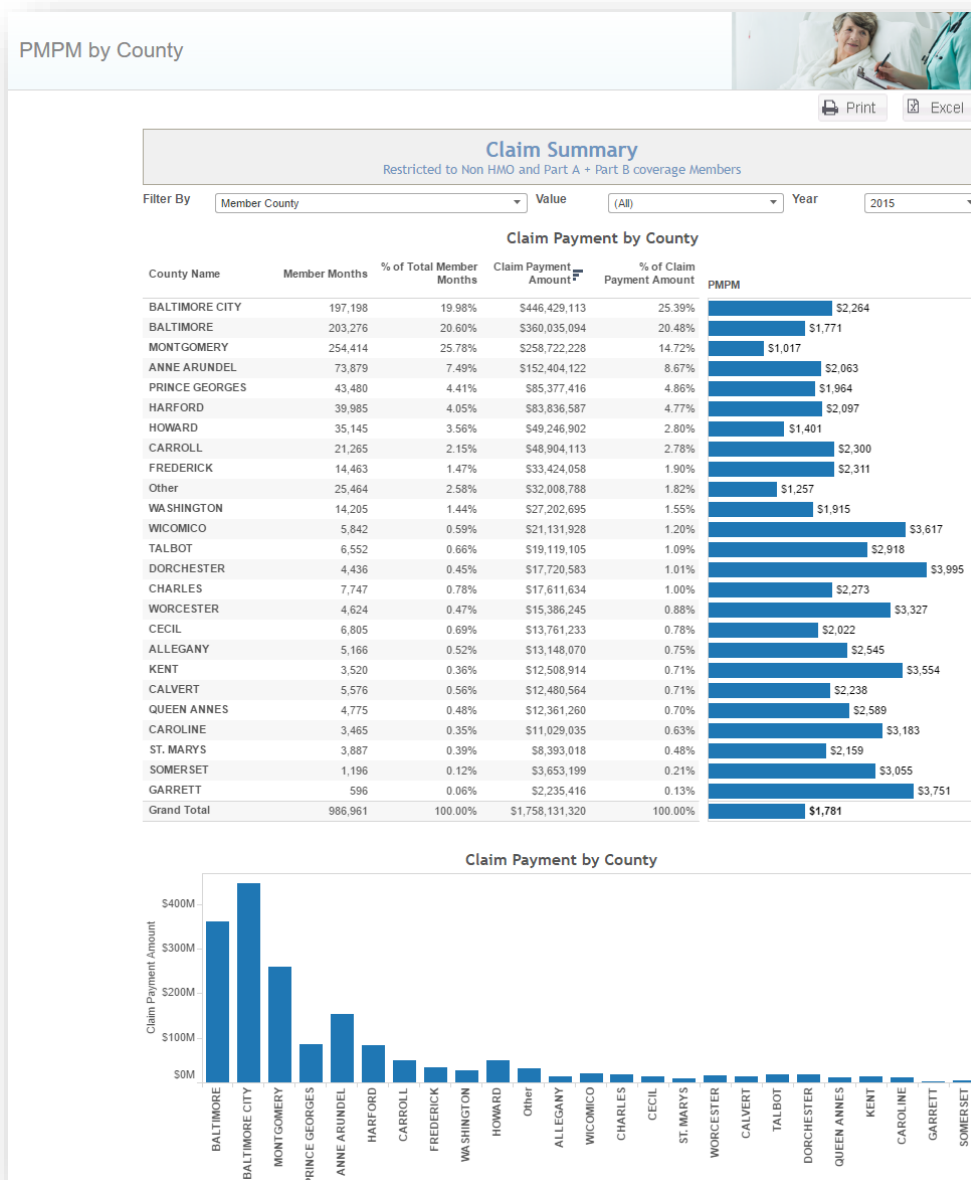
CHART NAME	DESCRIPTION
Payment by Claim Type	Lists the member month count, payment amounts, and average PMPM related to different types of services.
Payment by Month	Member count, payment amount, and average PMPM for each calendar month.
Payment by Claim Type over Time	Stacked bar chart showing the payment amounts for various types of service for each calendar month. The line chart shows the average PMPM for that month.



## 4.4.3 PMPM by County

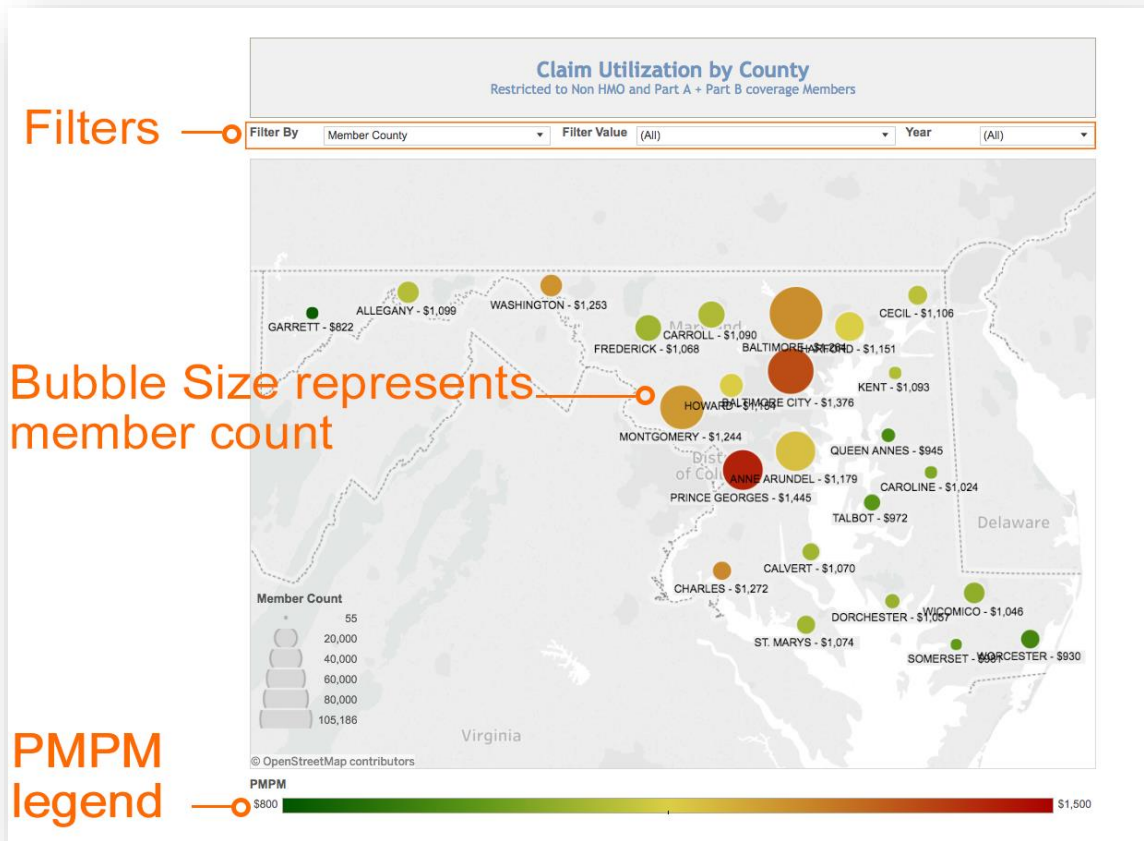
**PMPM by County** illustrates the distribution of member months, payment amount, and PMPM by county of residence. This report shows:

CHART NAME	DESCRIPTION
Claim Payment by County	Member month count, payment amount, and PMPM by county of residence.
Claim Payment by County	Bar chart listing the total claim payment amount by county of residency.



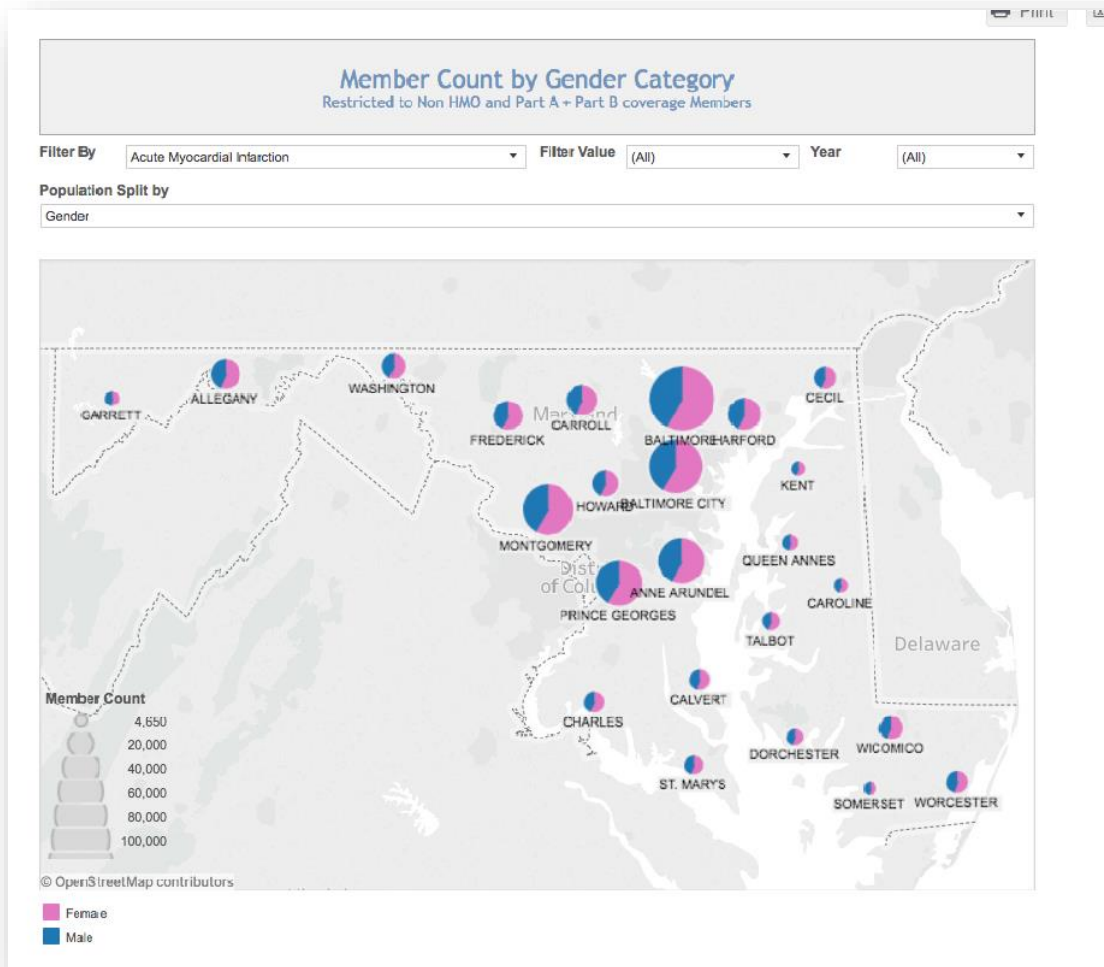
4.4.4 County Distribution

**County Distribution** displays various details for each county. The color of the circle over each county represents the value (green indicates lower PMPM; red indicates higher PMPM) while the size of the circle represents the member count.



## 4.4.5 County Characteristics

**County Characteristics** provides details about the population in each county. Measures to split the population, represented as pie charts, by can be selected under the **Population Split by** dropdown. The size of the circles represents the member count.



## 4.4.6 Diagnosis Summary

**Diagnosis Summary** presents the distribution of member count and payment amount for each diagnosis category. CCS Categories can be expanded or collapsed to change the level of detail presented.

Hover over the column headers and click the + to expand categories and view more details

Diagnosis Summary

Roster:

**CCS Category Summary**  
Restricted to Non HMO and Part A + Part B coverage Members

Filter By:  Filter Value:  Year:

CCS Category 1	Member Count	Claim Payment Amount	PMPM
7 : Diseases of the circulatory system	9,742	\$154,756,353	\$1,589
16 : Injury and poisoning	7,029	\$79,755,466	\$3,047
13 : Diseases of the musculoskeletal system an...	8,784	\$77,623,018	\$1,110
2 : Neoplasms	5,184	\$70,716,635	\$2,475
8 : Diseases of the respiratory system	8,809	\$63,385,393	\$1,312
1 : Infectious and parasitic diseases	7,964	\$57,120,191	\$2,020
10 : Diseases of the genitourinary system	7,572	\$52,102,984	\$1,184
17 : Symptoms, signs, and ill-defined conditions...	9,663	\$50,854,740	\$820

Diagnosis Summary

Roster:

**CCS Category Summary**  
Restricted to Non HMO and Part A + Part B coverage Members

Filter By:  Filter Value:  Year:

Hover over the column heads and click - to collapse columns

CCS Category 1	CCS Category 2	Member Count	Claim Payment Amount	PMPM
7 : Diseases of the circulatory system	7.1 : Hypertension	7,492	\$18,033,720	\$528
	7.2 : Diseases of the heart	8,924	\$83,177,424	\$1,420
	7.3 : Cerebrovascular disease	3,863	\$33,092,172	\$2,755
	7.4 : Diseases of arteries; arterioles; a...	4,932	\$15,218,785	\$1,096
	7.5 : Diseases of veins and lymphatics	2,445	\$5,234,253	\$738
16 : Injury and poisoning	16.1 : Complications	2,520	\$32,036,393	\$4,894
	16.1 : Joint disorders and dislocations...	621	\$895,171	\$835
	16.2 : Fractures	2,419	\$32,618,341	\$4,243
	16.3 : Spinal cord injury [227.]	243	\$643,296	\$1,758
	16.4 : Intracranial injury [233.]	459	\$4,367,008	\$5,432
	16.5 : Crushing injury or internal injury ...	135	\$291,958	\$1,933
	16.6 : Open wounds	1,726	\$2,076,967	\$616
	16.7 : Sprains and strains [232.]	1,395	\$1,039,847	\$429
	16.8 : Superficial injury; contusion [239.]	2,147	\$1,301,386	\$420



## 4.4.7 Inpatient Outpatient Providers

**Inpatient Outpatient Providers** displays the top 20 short term facilities and top 20 outpatient/ED providers from which the population received services (based on volume of services for the population selected) during the designated time period. These lists allow the user to identify the other top providers that are treating patients who are also treated at their facility. Outpatient/ED providers are defined by Part B outpatient claims (claim type 40). The report is sorted by claim payment amount and shows the payment amounts and average inpatient length of stay (LOS) for each provider.

Inpatient Outpatient Providers

Print
 Excel

**Provider Payment Summary**  
 Restricted to Non HMO and Part A + Part B coverage Members

Filter By Member County Filter Value (All) Year (All)

**Top 20 Short Term Facility Providers**

Provider Name	Member Count	Claim Payment Amount	Avg Claim Payment Amount	Avg LOS
UM Medical Center	14,951	\$759,008,336	\$35,276	8.2
Johns Hopkins Hospital	16,370	\$741,942,562	\$27,840	8.1
Sinai Hospital of Baltimore	13,458	\$424,010,876	\$20,865	7.0
Johns Hopkins Bayview Medical Center	11,123	\$316,561,337	\$17,587	7.8
MedStar Franklin Square Medical Center	13,550	\$295,914,709	\$12,584	5.1
MedStar Union Memorial Hospital	10,176	\$288,173,352	\$20,320	5.3
Anne Arundel Medical Center	17,646	\$287,458,526	\$10,256	4.8
UM Baltimore Washington Medical Center	13,013	\$275,750,146	\$11,844	4.9
MEDSTAR WASHINGTON HOSPITAL CENTER	9,235	\$268,760,668	\$20,223	7.7
UM St. Joseph Medical Center	13,467	\$266,460,667	\$13,570	4.4
Peninsula Regional Medical Center	10,804	\$256,066,886	\$13,164	5.1
Saint Agnes Hospital	10,219	\$230,500,633	\$13,805	5.1
MedStar Good Samaritan Hospital	9,025	\$215,899,456	\$14,494	5.8
Frederick Memorial Hospital	10,428	\$208,439,121	\$11,500	5.3
Holy Cross Hospital	10,291	\$205,871,130	\$13,176	5.5
Meritus Medical Center	9,137	\$195,969,929	\$11,246	5.4
Adventist Shady Grove Medical Center	10,085	\$195,022,982	\$12,479	5.3
Western Maryland Regional Medical Center	6,674	\$190,124,459	\$14,759	5.6
Greater Baltimore Medical Center	10,443	\$188,954,202	\$12,353	4.6
Suburban Hospital	11,189	\$187,967,267	\$11,422	5.0
Other	172,706	\$3,426,822,369	\$10,185	6.9

**Top 20 Outpatient & ED Providers**

Provider Name	Member Count	Claim Payment Amount	Avg Claim Payment Amount
Johns Hopkins Hospital	81,458	\$379,337,164	\$702
UM Medical Center	33,025	\$227,478,400	\$1,328
Sinai Hospital of Baltimore	42,058	\$216,290,725	\$1,039
Anne Arundel Medical Center	43,802	\$188,881,332	\$702
Mercy Medical Center	33,381	\$165,740,403	\$759
Greater Baltimore Medical Center	35,822	\$142,178,970	\$891
Johns Hopkins Bayview Medical Center	35,171	\$141,316,501	\$540
UM Upper Chesapeake Medical Center	25,015	\$136,993,609	\$872
UM Shore Medical Center at Easton	30,166	\$131,196,829	\$433
Peninsula Regional Medical Center	29,696	\$130,228,891	\$606

## 4.4.8 HH/SNF Providers

**HH/SNF Providers** displays the top 20 skilled nursing facilities and top 20 home health agencies from which the filtered population received services (based on volume of services for the population selected). The report is sorted by member count and shows the payment amounts and average skilled nursing facility length of stay (LOS).

HH/SNF Providers

Print
 Excel

**Provider Payment Summary**  
 Restricted to Non HMO and Part A + Part B coverage Members

Filter By Member County Filter Value (All) Year (All)

### Top 20 Skilled Nursing Facility Providers

Provider Name	Member Count	Claim Payment Amount	Avg Claim Payment Amount	Avg LOS
HEBREW HOME OF GREATER WASHINGTON	1,852	\$30,844,288	\$6,010	15.7
KESWICK MULTI-CARE CENTER	1,965	\$29,459,685	\$6,167	14.5
RIVERVIEW REHABILITATION & HEALTH CENTER	1,160	\$25,148,640	\$6,503	16.2
ST THOMAS MORE MEDICAL COMPLEX	745	\$22,808,221	\$8,976	17.7
CROFTON CONVALESCENT CENTER	1,420	\$22,708,181	\$6,634	15.2
POWERBACK REHABILITATION	1,832	\$21,889,158	\$5,812	12.8
SPA CREEK CENTER	1,602	\$21,611,019	\$6,112	14.9
FRANKLIN WOODS CENTER	1,394	\$20,980,363	\$6,414	14.0
THE VILLAGE AT ROCKVILLE	1,284	\$20,925,785	\$6,171	15.3
FUTURE CARE CHESAPEAKE	1,197	\$20,576,933	\$4,514	18.2
BROOKE GROVE REHAB. & NSG CTR	1,318	\$20,078,635	\$6,234	14.0
SALISBURY CENTER	1,442	\$18,237,058	\$4,893	14.7
WILSON HEALTH CARE CENTER	1,244	\$17,970,612	\$3,438	20.2
NMS HEALTHCARE OF SILVER SPRING	604	\$17,161,350	\$8,739	18.9
OAKWOOD CARE CENTER	782	\$17,096,106	\$7,247	18.4
ST. ELIZABETH REHAB. & NSG. CE	848	\$16,654,647	\$6,862	16.4
MANORCARE HEALTH SERVICES - POTOMAC	1,221	\$16,372,452	\$5,785	14.7
WAUGH CHAPEL CENTER	1,062	\$15,867,702	\$6,479	14.9
NMS HEALTHCARE OF HAGERSTOWN, LLC	578	\$15,708,473	\$7,982	18.6
DOCTORS COMMUNITY REHABILITATION AND PATIENT C...	974	\$15,691,869	\$6,646	15.7
Other	99,023	\$1,449,078,650	\$5,831	15.0

### Top 20 Home Health Providers

Provider Name	Member Count	Claim Payment Amount	Avg Claim Payment Amount
BAYADA HOME HEALTH, INC	13,989	\$70,645,967	\$3,015
VISITING NURSE ASSOCIATION OF MD, LLC	15,467	\$68,010,407	\$2,774
AMEDISYS HOME HEALTH	11,472	\$58,014,191	\$2,744
GENTIVA CERTIFIED HEALTHCARE	8,771	\$53,133,927	\$3,432
MEDSTAR HEALTH VNA	12,402	\$46,191,753	\$2,541
ADVENTIST HOME HEALTH SERVICES	9,594	\$37,186,246	\$2,722
JOHNS HOPKINS HOME CARE GROUP	9,370	\$37,143,107	\$2,778
MEDSTAR HEALTH VNA, INC	8,678	\$35,617,481	\$2,711
HOME CALL - FREDERICK	4,755	\$33,149,530	\$3,410
HOME CALL	4,766	\$28,130,778	\$3,004
HEMOCARE MARYLAND, LLC	7,204	\$24,374,284	\$2,439

## 4.4.9 DRG Summary

**DRG Summary** displays the top 40 APR DRGs by total payment amount. The report also provides the member count and average claim payment amount for each APR DRG.

<b>DRG Summary</b> Restricted to Non HMO and Part A + Part B coverage Members				
<b>Filter By</b>	Member County	<b>Filter Value</b>	(All)	<b>Year</b>
			(All)	
Restricted to Top 40 DRG's				
APR DRG	Member Count	Avg. Claim Payment	Claim Payment Amount	% of Total Claim Payment Amount
Septicemia & disseminated infections	2,071	\$15,221	\$39,895,045	11%
Knee joint replacement	710	\$19,501	\$15,737,454	4%
Hip joint replacement	550	\$20,461	\$12,645,088	3%
Heart failure	804	\$9,505	\$11,520,128	3%
Infectious & parasitic diseases including HIV w O.R. procedure	279	\$34,468	\$10,305,802	3%
Pulmonary edema & respiratory failure	540	\$13,216	\$8,537,249	2%
Dorsal & lumbar fusion proc except for curvature of back	183	\$37,824	\$7,375,585	2%
CVA & precerebral occlusion w infarct	589	\$10,297	\$6,600,230	2%
Other pneumonia	686	\$8,792	\$6,540,977	2%
Other vascular procedures	198	\$25,777	\$6,057,644	2%
Major small & large bowel procedures	242	\$23,311	\$5,944,235	2%
Schizophrenia	215	\$8,972	\$5,831,719	2%
Percutaneous cardiovascular procedures w/o AMI	158	\$33,170	\$5,672,082	2%
Renal failure	550	\$8,904	\$5,609,328	2%
Hip & femur procedures for trauma except joint replacement	324	\$16,222	\$5,466,748	1%
Chronic obstructive pulmonary disease	388	\$9,215	\$5,261,671	1%
Kidney & urinary tract infections	570	\$7,345	\$5,075,568	1%
Percutaneous cardiovascular procedures w AMI	200	\$20,374	\$4,278,452	1%
Major respiratory infections & inflammations	275	\$12,886	\$3,994,733	1%
Cardiac arrhythmia & conduction disorders	516	\$6,516	\$3,929,445	1%
Cellulitis & other bacterial skin infections	395	\$7,937	\$3,714,549	1%
Craniotomy except for trauma	96	\$34,874	\$3,487,352	1%
Acute myocardial infarction	345	\$8,658	\$3,446,048	1%
Coronary bypass w/o cardiac cath or percutaneous cardiac procedure	93	\$35,572	\$3,308,191	1%
Cardiac valve procedures w/o cardiac catheterization	65	\$50,242	\$3,265,699	1%
Tracheostomy w MV 96+ hours w extensive procedure or ECMO	24	\$132,122	\$3,170,930	1%
Shoulder, upper arm & forearm procedures	138	\$21,412	\$3,147,495	1%
Nontraumatic stupor & coma	337	\$9,020	\$3,139,052	1%
Bipolar disorders	229	\$7,838	\$3,009,899	1%

## 4.4.10 BETOS Summary

**BETOS Summary** displays the distribution of physician services, durable medical equipment, and outpatient services for the filtered population. These services are categorized using the BETOS classification and contains the claim line count, unit count and total payment amount for each BETOS. For further information on BETOS classification, refer to the Glossary in section 7.

BETOS Summary			
Restricted to Non HMO and Part A + Part B coverage Members			
Filter By	Member County	Filter Value	(All)
		Year	(All)
BETOS Summary - Part B Physician Claims			
BETOS 1	Claim Lines	Claim Payment Amount	Units
M : Evaluation & Management	39,954,878	\$2,275,896,707	40,481,225
P : Procedures	18,417,225	\$1,740,751,525	28,431,037
O : Other	6,577,699	\$1,045,728,696	67,264,297
I : Imaging	10,566,784	\$601,910,294	23,699,081
T : Tests	31,398,678	\$558,915,180	34,509,326
Z : Exceptions / Unclassified	5,570,358	\$35,420,734	5,721,445
Y : Exceptions / Unclassified	608,634	\$11,137,744	2,247,402
D : Durable Medical Equip.	130,869	\$4,021,284	239,143
BETOS Summary - DME Claims			
BETOS 1	Claim Lines	Claim Payment Amount	Units
D : Durable Medical Equip.	5,433,476	\$320,500,810	
O : Other	569,358	\$71,912,781	
Z : Exceptions / Unclassified	48,242	\$12,956,362	
I : Imaging	11	\$0	
M : Evaluation & Management	91	\$0	
P : Procedures	10,889	\$0	
T : Tests	14	\$0	
Y : Exceptions / Unclassified	50	\$0	
BETOS Summary - Outpatient Claims			
BETOS 1	Claim Lines	Claim Payment Amount	Units
T : Tests	19,208,389	\$509,191,905	20,563,077
P : Procedures	13,212,194	\$1,941,398,293	19,469,198
D : Durable Medical Equip.	201,804	\$106,889,748	345,738
Y : Exceptions / Unclassified	132,619	\$13,898,984	240,707
M : Evaluation & Management	6,370,877	\$908,544,927	10,926,672
O : Other	8,002,768	\$688,875,831	179,292,739
I : Imaging	2,556,760	\$473,911,571	4,979,398

## 4.4.11 Imaging Summary

**Imaging Summary** displays the top 25 BETOS category and provider specialty combinations for imaging services performed by physicians or ordered within the outpatient or emergency department setting. Claim line count, unit count, and total payment amount for each BETOS category is presented in the report.

Imaging Summary

Print Excel

**Imaging Summary**  
Restricted to Non HMO and Part A + Part B coverage Members

Filter By Member County Filter Value (All) Year (All)

**Imaging Summary - Part B Physician Claims**  
Restricted to Top 25 BETOS & Provider Specialty

BETOS 3	Provider Specialty	Claim Lines	Claim Payment Amount <sup>2</sup>	Units
I2B : Advanced Imaging - CAT/CT/CTA: Other	Diagnostic radiology	960,268	\$78,741,526	960,681
I2D : Advanced Imaging - MRI/MRA: Other	Diagnostic radiology	368,620	\$66,361,616	371,937
I1E : Standard Imaging - Nuclear Medicine	Cardiology	218,533	\$54,771,575	376,644
I1C : Standard Imaging - Breast	Diagnostic radiology	643,628	\$51,253,146	643,682
I3C : Echography/Ultrasonography - Heart	Cardiology	506,364	\$49,123,359	506,490
I2C : Advanced Imaging - MRI/MRA: Brain/Head/Neck	Diagnostic radiology	223,426	\$24,501,584	223,464
I2A : Advanced Imaging - CAT/CT/CTA: Brain/Head/Neck	Diagnostic radiology	510,231	\$20,710,670	510,670
I1A : Standard Imaging - Chest	Diagnostic radiology	1,903,583	\$17,006,275	1,907,922
I1B : Standard Imaging - Musculoskeletal	Diagnostic radiology	1,060,560	\$16,458,744	1,067,290
I3F : Echography/Ultrasonography - Other	Diagnostic radiology	321,140	\$14,447,268	321,574
I1F : Standard Imaging - Other	Portable X-ray supplier	202,688	\$13,758,064	213,594
I3B : Echography/Ultrasonography - Abdomen/Pelvis	Diagnostic radiology	270,457	\$13,305,265	270,543
I3F : Echography/Ultrasonography - Other	Vascular surgery	140,341	\$12,410,721	140,704
I1B : Standard Imaging - Musculoskeletal	Orthopedic surgery	477,291	\$11,468,425	497,263
I1E : Standard Imaging - Nuclear Medicine	Diagnostic radiology	235,285	\$9,015,550	11,305,415
I2D : Advanced Imaging - MRI/MRA: Other	Nuclear medicine	13,412	\$6,998,088	13,416
I2D : Advanced Imaging - MRI/MRA: Other	Independent Diagnostic Testin..	18,808	\$6,643,198	18,858
I2B : Advanced Imaging - CAT/CT/CTA: Other	Radiation oncology	117,124	\$6,479,029	123,419
I3A : Echography/Ultrasonography - Eye	Ophthalmology	112,389	\$6,233,593	114,181
I3D : Echography/Ultrasonography - Carotid Arteries	Cardiology	43,435	\$5,480,998	43,436
I3D : Echography/Ultrasonography - Carotid Arteries	Vascular surgery	52,916	\$5,306,767	52,916
I3F : Echography/Ultrasonography - Other	Cardiology	39,723	\$4,879,538	39,726
I3C : Echography/Ultrasonography - Heart	Internal medicine	41,760	\$4,455,360	41,763
I4B : Imaging/Procedure - Other	Radiation oncology	83,018	\$4,302,679	84,582
I4B : Imaging/Procedure - Other	Diagnostic radiology	97,881	\$4,125,272	98,712

**Imaging Summary - Outpatient & ED Claims**

BETOS 3	Claim Lines	Claim Payment Amount	Units
I2B : Advanced Imaging - CAT/CT/CTA: Other	374,109	\$65,240,012	375,765
I4B : Imaging/Procedure - Other	113,907	\$51,485,002	130,114
I1E : Standard Imaging - Nuclear Medicine	181,423	\$55,871,228	2,570,005
I2D : Advanced Imaging - MRI/MRA: Other	77,681	\$51,855,032	78,768
I3F : Echography/Ultrasonography - Other	149,107	\$44,098,016	150,316
I1B : Standard Imaging - Musculoskeletal	424,502	\$37,005,618	431,654
I1A : Standard Imaging - Chest	545,213	\$34,568,212	549,234

#### 4.4.12 Physician Specialty Summary

**Physician Specialty Summary** displays the physician claims by provider type and top 35 provider specialties by number of claim lines, payment amount and units. Provider type is categorized by a visit from a Primary Care Provider (PCP). A PCP visit is defined by a physician visit with the specialty of family practice or internal medicine.

Physician Service - Specialty Details				
Restricted to Non HMO and Part A + Part B coverage Members				
Filter By	Acute Myocardial Infarction	Filter Value	(All)	Year
			(All)	
Physician Claims by Provider Type				
PCP Visit	Claim Lines	Claim Payment Amount	% of Total Claim Payment Amount	Units
N	99,229,188	\$5,609,868,297	85.6%	188,097,545
Y	18,322,038	\$942,171,052	14.4%	21,426,325
Grand Total	117,551,226	\$6,552,057,349	100.0%	209,523,870
Physician Services by Specialty				
Top 35 Specialty				
Provider Specialty	Claim Lines	Claim Payment Amount	% of Total Claim Payment Amount	Units
Internal medicine	13,332,255	\$716,544,691	10.9%	15,623,791
Ophthalmology	4,979,350	\$466,045,296	7.1%	5,567,353
Diagnostic radiology	8,695,320	\$370,999,218	5.7%	20,564,364
Cardiology	5,779,414	\$354,677,358	5.4%	6,373,375
Clinical laboratory (billing inde..	20,397,363	\$315,457,563	4.8%	23,511,968
Hematology/oncology	2,301,744	\$290,008,675	4.4%	28,969,366
Ambulance service supplier, e..	1,715,779	\$268,790,742	4.1%	8,669,295
Ambulatory surgical center	1,852,542	\$260,700,138	4.0%	2,043,274
Orthopedic surgery	3,045,309	\$208,198,462	3.2%	4,203,127
Family practice	4,585,352	\$201,963,596	3.1%	5,073,423
Physical therapist	9,009,762	\$183,043,750	2.8%	11,455,326
Emergency medicine	2,655,338	\$180,568,259	2.8%	2,701,041
Dermatology	1,940,319	\$146,595,719	2.2%	2,603,356
Nurse practitioner	3,153,449	\$142,431,965	2.2%	3,633,396
Vascular surgery	614,460	\$129,001,837	2.0%	1,033,957
Nephrology	1,174,360	\$127,101,514	1.9%	1,683,735
Rheumatology	889,354	\$124,572,837	1.9%	6,497,084
Medical oncology	843,774	\$124,302,856	1.9%	11,153,344
Urology	1,899,457	\$121,923,629	1.9%	3,199,984
Anesthesiology	1,453,360	\$120,494,144	1.8%	4,403,061
General surgery	951,575	\$119,019,048	1.8%	1,002,517
Physician assistant	2,363,342	\$103,133,587	1.6%	2,701,942
Podiatry	2,785,260	\$99,848,853	1.5%	2,645,545
Neurology	1,041,300	\$97,846,438	1.5%	2,795,324
Gastroenterology	1,107,369	\$97,618,244	1.5%	1,514,346
Radiation oncology	728,401	\$92,474,477	1.4%	887,930
Pulmonary disease	1,234,172	\$77,972,682	1.2%	1,343,357
Psychiatry	1,145,769	\$68,386,891	1.0%	1,152,306

## 4.4.13 Physician Place of Service Summary

**Physician Place of Service Summary** displays the place of service for physician claims by claim line count, payment amount, and unit count.

Physician Place of Service Summary

Print Excel

**Part - B Physician Claims by Place of Service**  
Restricted to Non HMO and Part A + Part B coverage Members

Filter By: Acute Myocardial Infarction Filter Value: (All) Year: (All)

Place of Service	Claim Lines	Claim Payment Amount	Units
OFFICE	61,694,090	\$3,498,470,482	136,801,237
INPATIENT HOSPITAL	12,009,898	\$971,194,910	14,922,660
OUTPATIENT HOSPITAL	6,623,052	\$430,308,974	8,620,293
AMBULATORY SURGERY CENTER	2,874,590	\$428,746,439	3,700,384
INDEPENDENT LABORATORY	19,925,530	\$317,381,917	22,182,607
AMBULANCE - LAND	1,708,075	\$254,633,728	8,494,614
EMERGENCY ROOM - HOSPITAL	4,965,754	\$232,156,463	5,002,458
SKILLED NURSING FACILITY	1,994,394	\$98,970,076	2,028,440
NURSING FACILITY	1,860,682	\$88,016,638	2,594,775
END STAGE RENAL DISEASE TREATMENT FACILITY	242,924	\$47,734,723	308,744
PATIENT'S HOME	566,283	\$41,151,156	1,185,102
Other	539,195	\$41,065,414	760,693
ASSISTED LIVING FACILITY	852,533	\$38,572,880	1,001,661
MASS IMMUNIZATION CENTER	757,078	\$26,330,345	757,105
URGENT CARE FACILITY	599,979	\$21,176,452	649,362
INDEPENDENT CLINIC	336,291	\$16,108,586	512,860
TELEHEALTH	878	\$38,165	878



## 4.4.14 Paid Band Report

**Paid Band Report** displays the filtered population by each member's total payment amount for the year.

Paid Band Report

Print
 Excel

Paid Band Report

Restricted to Non HMO and Part A + Part B coverage Members

Filter By

Member County

Filter Value

(All)

Year

(All)

Paid Band	Member Count	% of Total Member Count	Claim Payment Amount	% of Total Claim Payment Amount
\$0 - \$100	5,146	0.80%	\$97,110	0.00%
\$100 - \$200	2,073	0.32%	\$309,624	0.00%
\$200 - \$300	2,106	0.33%	\$524,824	0.00%
\$300 - \$400	2,217	0.34%	\$774,306	0.00%
\$400 - \$500	2,352	0.36%	\$1,058,528	0.00%
\$500 - \$600	2,330	0.36%	\$1,278,459	0.01%
\$600 - \$700	2,288	0.35%	\$1,484,714	0.01%
\$700 - \$800	2,439	0.38%	\$1,825,015	0.01%
\$800 - \$900	2,544	0.39%	\$2,158,961	0.01%
\$900 - \$1000	2,578	0.40%	\$2,444,780	0.01%
\$1000 - \$2000	25,711	3.98%	\$38,612,095	0.16%
\$2000 - \$3000	26,471	4.10%	\$66,196,248	0.27%
\$3000 - \$4000	26,004	4.02%	\$90,869,880	0.37%
\$4000 - \$5000	25,525	3.95%	\$114,798,003	0.47%
\$5000 - \$6000	24,320	3.76%	\$133,625,706	0.54%
\$6000 - \$7000	22,857	3.54%	\$148,385,005	0.60%
\$7000 - \$8000	21,175	3.28%	\$158,661,369	0.64%
\$8000 - \$9000	19,483	3.01%	\$165,361,660	0.67%
\$9000 - \$10000	18,029	2.79%	\$171,135,201	0.69%
\$10000 - \$20000	119,479	18.49%	\$1,719,030,333	6.98%
\$20000 - \$30000	65,887	10.19%	\$1,623,891,823	6.59%
\$30000 - \$40000	44,980	6.96%	\$1,561,029,291	6.34%
\$40000 - \$50000	33,606	5.20%	\$1,504,996,657	6.11%
\$50000 - \$60000	25,782	3.99%	\$1,412,047,338	5.73%
\$60000 - \$70000	20,123	3.11%	\$1,303,130,979	5.29%
\$70000 - \$80000	15,786	2.44%	\$1,180,711,908	4.79%
\$80000 - \$90000	12,869	1.99%	\$1,091,602,925	4.43%



4.4.15 High Cost Member

**High Cost Member** lists the patients with the highest total claim payment amount. Age category and gender characteristics are provided for each member.

High Cost Member

Print

Excel

High Cost Member List

Restricted to Non HMO and Part A + Part B coverage Members

Filter By

Member County

Filter Value

(All)

Year

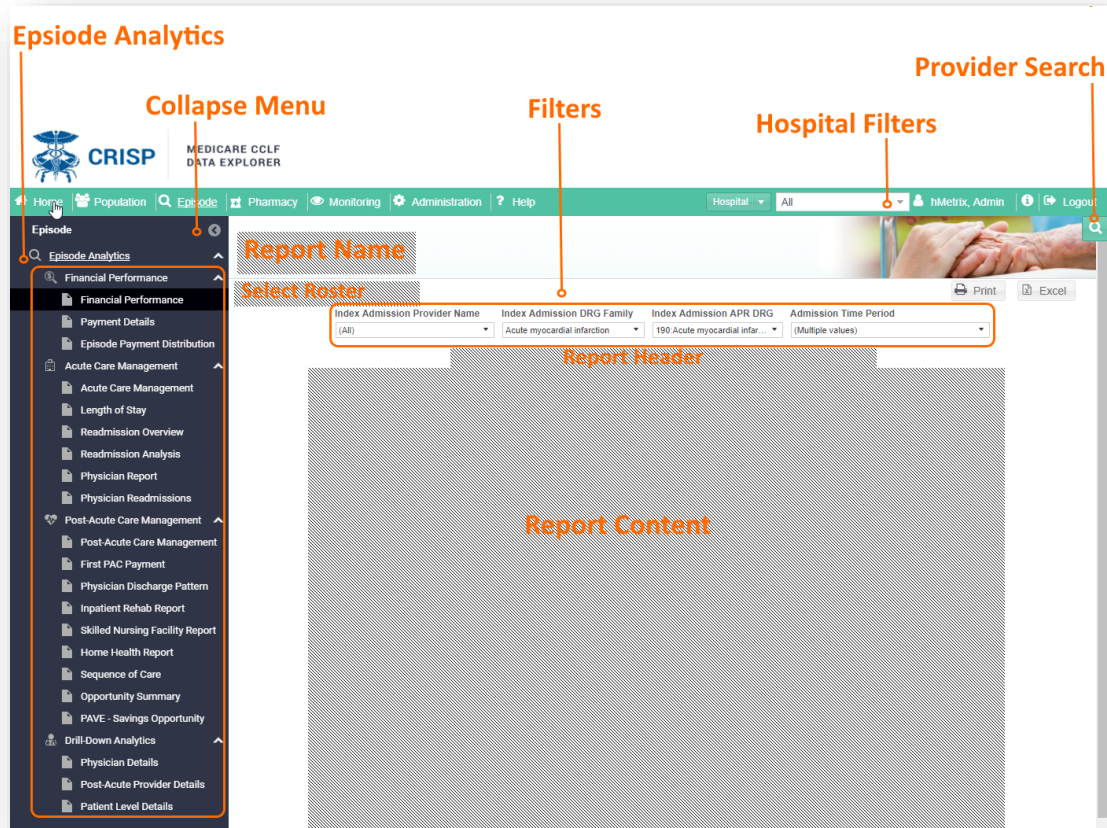
(All)

Member ID	Age Category	Gender	Claim Payment Amount
0000000001	64 and Younger	Male	\$4,657,751
0000000002	64 and Younger	Male	\$4,110,377
0000000003	64 and Younger	Female	\$2,460,143
0000000004	64 and Younger	Female	\$2,420,589
0000000005	70 to 74	Female	\$2,155,877
0000000006	64 and Younger	Male	\$1,731,310
0000000007	65 to 69	Female	\$1,712,763
0000000008	80 to 84	Female	\$1,683,971
0000000009	64 and Younger	Male	\$1,629,177
0000000010	80 to 84	Female	\$1,613,631
0000000011	64 and Younger	Female	\$1,611,617
0000000012	64 and Younger	Male	\$1,582,253
0000000013	70 to 74	Female	\$1,478,478
0000000014	80 to 84	Male	\$1,437,280
0000000015	75 to 79	Male	\$1,410,264
0000000016	64 and Younger	Male	\$1,382,034
0000000017	75 to 79	Male	\$1,379,358
0000000018	80 to 84	Male	\$1,306,093
0000000019	64 and Younger	Female	\$1,293,417
0000000020	80 to 84	Male	\$1,259,306
0000000021	65 to 69	Male	\$1,251,464
0000000022	64 and Younger	Male	\$1,246,530
0000000023	65 to 69	Male	\$1,238,779
0000000024	80 to 84	Male	\$1,216,531
0000000025	64 and Younger	Male	\$1,214,627
0000000026	70 to 74	Male	\$1,214,396
0000000027	64 and Younger	Male	\$1,201,481

## 5 EPISODE ANALYTICS

The Episode Analytics reports are described in further detail in this section. For detailed information on how episodes are constructed in MADE, refer to the topic in CCLF Data Basics titled “Episode.”

Note: There is no attribution selector in Episode Analytics as all episodes must begin with an inpatient admission.



REPORT FUNCTIONS	DESCRIPTION
<b>Report Name</b>	The report name is always displayed on the left-hand corner. On the side menu click the report name to navigate across reports.
<b>Report Header (Chart Name)</b>	Each report may contain subset reports. The header contains the report title and a short description of the report.
<b>Report Content</b>	The report content area displays the results for the specific report header.
<b>Report Filters</b>	All Episode reports can be filtered using several criteria and values. View the Episode reports using the following filters: <ul style="list-style-type: none"> <li>• Index Admission Provider Name,</li> <li>• Index Admission Index DRG family,</li> <li>• Index Admission APR DRG</li> <li>• Admission Time Period</li> </ul>
<b>Print PDF</b>	Click on the PDF button to export the report into a PDF format.

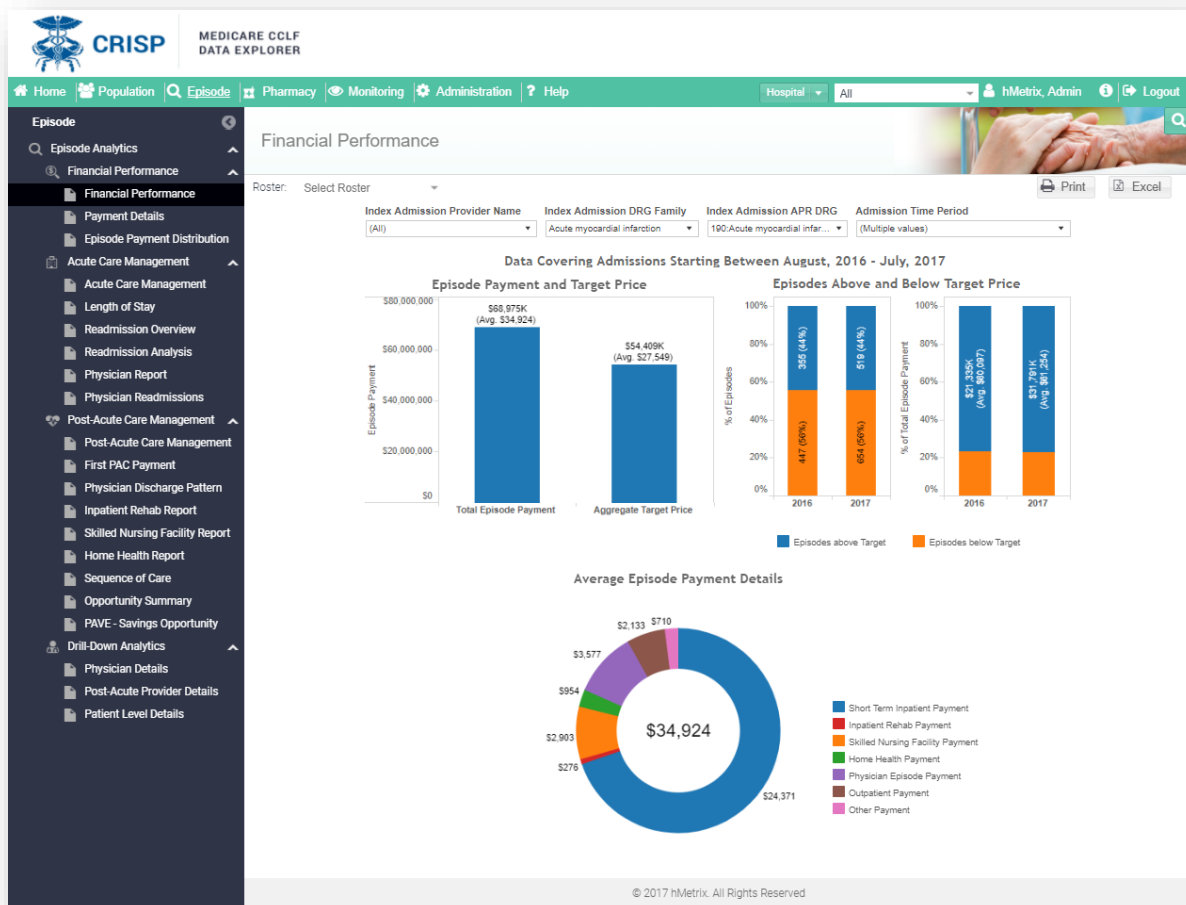
## Excel Export

Click on the Excel button to export the report details into Excel workbook.

## 5.1 Financial Performance

**Financial Performance** compares the episode payment to the target price for the chosen APR DRG. These reports show:

CHART NAME	DESCRIPTION
Episode Payment and Target Price	Total average episode payment compared to the target.
Episodes Above and Below Target Price	The percent of episodes with total episode payments below and above the target price and the distribution of total dollars related to these episodes.
Average Episode Payment Details	The distribution of average payments for the entire episode by provider type.



## 5.1.1 Payment Details

**Payment Details** provides greater detail about the episode payment distribution. This report shows:

CHART NAME	DESCRIPTION
Episode Payment Summary	Presents the total number of episodes, average episode payment, and total episode payment for episodes above and below the target price.
Episode Payment Details	Compares the total and average episode payment by care setting for the filtered population to the overall state average.
Episode Payment Distribution – State Comparison	Compares the proportion the average episode payment for each care settings for the filtered population to that of the overall state average.



## 5.1.2 Episode Payment Distribution

**Episode Payment Distribution** displays the distribution of all episodes below and above the target price. This report shows:

CHART NAME	DESCRIPTION
<b>Episode Payment Distribution and Comparison to Target Price</b>	Shows the distribution of episodes by total episode payment. Benchmark is provided for the Target Price. Each segment within each bar represents an episode.
<b>Episode Summary by First Post-Acute Setting</b>	Provides a summary of total and average episode payments, readmissions rates and the total gain / loss compared to the target price based on the first post-acute care setting following discharge from the acute care hospital.
<b>Episodes Above Target Price by First Post-Acute Setting</b>	For only episodes that exceed the target price, provides a summary of total and average episode payments, readmissions rates and the total gain / loss compared to the target price based on the first post-acute care setting following discharge from the acute care hospital.



## 5.2 Acute Care Management

**Acute Care Management** contains performance measures related to the acute care setting. This report shows:

CHART NAME	DESCRIPTION
DRG Summary	The number of episodes, the average episode payments, number of readmissions, and average readmission payment for each APR DRG of the chosen family.
Index Admission LOS	Quarterly and annual average length of stay of the index admission.
Payment Comparison – Episodes w/ and w/o Readmission	Compares the payments by index admission, post-acute care and readmission components for episodes with and without readmissions.
Readmission Count Comparison	The number of readmissions back to your hospital versus a different hospital.
Readmission Rate Trend	Trends readmissions in total and where the readmission occurred.



## 5.2.1 Length of Stay

**Length of Stay** presents the length of stay for the APR DRG of the index admission. This report shows:

CHART NAME	DESCRIPTION
Distribution of Length of Stay(LOS) by APR DRG	Presents the distribution of the length of stay for the filtered APR DRG. Results are presented as a box and whisker plot.
Index Length of Stay (LOS) Trend	Shows the change in length of stay by quarter for the filtered APR DRG and time period.





## 5.2.2 Readmission Overview

**Readmission Overview** provides the all-cause readmission rate by APR DRG and the associated average payment for episodes that contain an acute care hospital readmission. This report shows:

CHART NAME	DESCRIPTION
<b>Overall Readmission Overview</b>	Presents the proportion of episodes that contain an all-cause readmission and the average episode payment for those episodes. Also shows the average episode payment for episodes that are readmitted back to the index APR DRG acute care hospital versus those readmitted to a different hospital.
<b>Readmission Rate and Average Readmission Payment by APR DRG</b>	Presents the readmission rate and average readmission payment for the filtered APR DRG.
<b>Readmission Rate</b>	Shows the change in readmission rate by quarter for the filtered APR DRG and time period.





## 5.2.3 Readmission Analysis

**Readmission Analysis** provides the details of readmissions by readmission provider and responsible physician. This report shows:

TABLE NAME	DESCRIPTION
<b>Readmission Analysis</b>	Shows average episode payment, index APR DRG payment, readmission payment, and post-discharge episode payment by the episode readmission provider and the first post-acute care provider following discharge from the index hospitalization. Selecting a row in this table filters the Readmission Details table.
<b>Readmission Details</b>	Individual readmission information by responsible physician and readmission APR DRG.

Readmission Analysis

Index Admission Provider Name: (All) | Index Admission DRG Family: Acute myocardial infarction | Index Admission APR DRG: 190.Acute myocardial infarction | Admission Time Period: (Multiple values)

Data Covering Admissions Starting Between March, 2016 - February, 2017

Readmission Analysis

Click on episodes of interest and review episode details in Readmission Details table below

Episode Readmission Provider	First Post-Acute Care	# of Episodes	Avg. Episode Payment	Avg. Index APR DRG Payment	Avg. Episode Readmission LOS	Avg. Episode Readmission Payment	Avg. Post-Discharge Episode Payment	% of Post-Discharge Episode Payment
MedStar Washington Hospital Center	SNF	1	\$34,795	\$11,401	6	\$12,835	\$43,354	79%
	Community	14	\$37,842	\$6,165	5	\$21,328	\$31,776	84%
	Short Term Hospital	89	\$45,141	\$5,842	6	\$31,576	\$43,299	88%
	Total	104	\$47,687	\$5,939	6	\$30,016	\$41,748	88%
MedStar Union Memorial Hospital	SNF	4	\$98,360	\$21,353	6	\$59,787	\$77,607	78%
	Home Health	1	\$28,148	\$10,478	2	\$9,967	\$17,868	63%
	Community	5	\$66,792	\$10,056	4	\$43,537	\$56,736	80%
	Short Term Hospital	81	\$52,822	\$5,715	6	\$35,791	\$47,507	89%
	ER	1	\$67,616	\$1,174	3	\$20,356	\$66,443	98%
	Total	92	\$55,454	\$6,633	6	\$36,796	\$48,621	88%
UM Medical Center	Community	10	\$88,616	\$9,484	12	\$70,298	\$79,132	89%
	Short Term Hospital	76	\$67,738	\$7,650	8	\$47,609	\$60,109	89%
	Total	86	\$78,184	\$7,943	9	\$59,416	\$69,321	89%
Johns Hopkins Hospital	SNF	2	\$61,927	\$22,631	7	\$10,670	\$39,296	63%
	Home Health	3	\$78,173	\$12,739	16	\$48,446	\$65,434	84%
	Community	13	\$66,994	\$15,876	8	\$34,553	\$51,117	78%
	Short Term Hospital	59	\$63,397	\$8,050	9	\$44,578	\$55,347	87%
	etc	4	\$42,842	\$16,141	8	\$17,754	\$36,544	76%

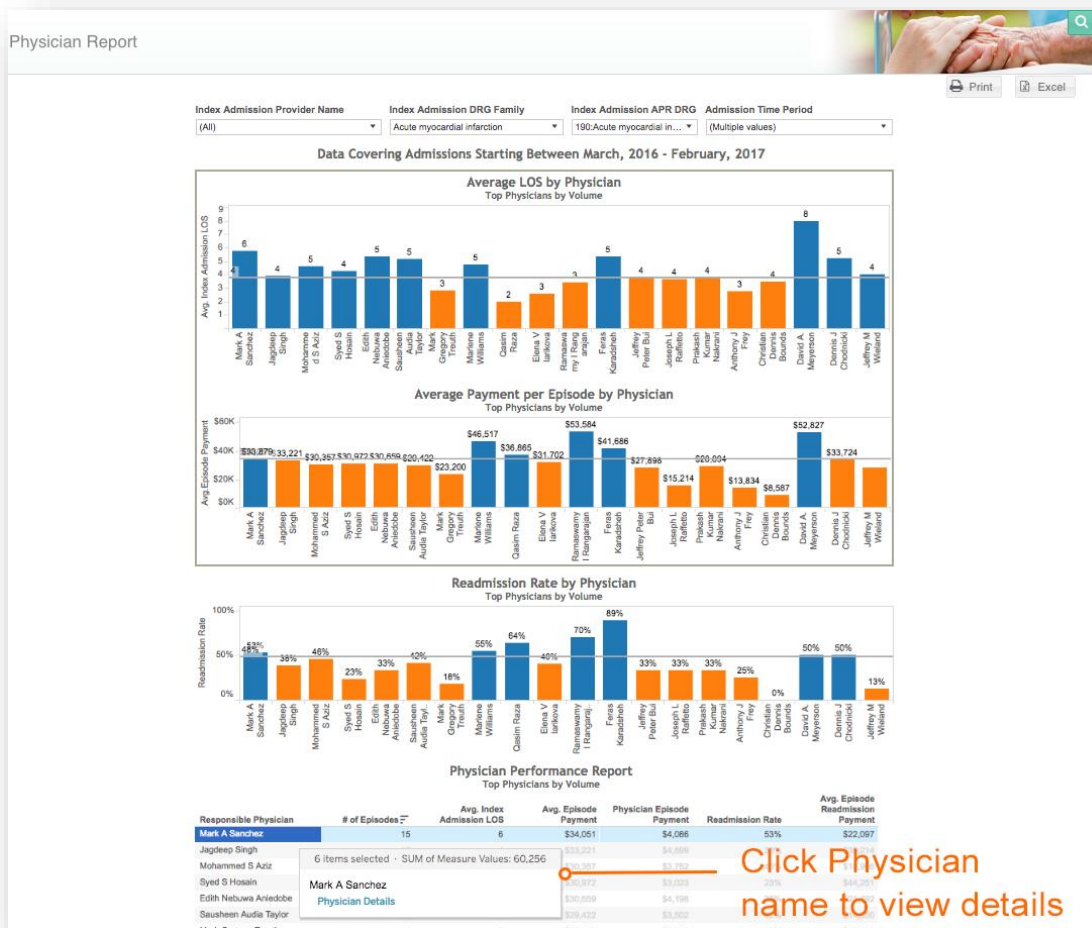
Readmission Details

Responsible Physician	Readmission APR DRG	Index Admission Begin Date	Index Admission Discharge Date	Total Episode Payment	Index APR DRG Payment	Readmission LOS	Total Episode Readmission Payment	Total Post-Discharge Episode Payment	% of Post-Discharge Episode Payment
Abdul Hanan Chenna	185 Coronary bypass w/o cardiac cath or percutaneous cardiac pro.	4/18/2016	4/21/2016	\$54,702	\$12,323	6	\$33,044	\$42,379	77%
	174 Percutaneous cardiovascular procedures w AMI	5/6/2016	5/9/2016	\$56,123	\$6,493	8	\$39,441	\$49,639	88%
Abdul Zahed Jahed	174 Percutaneous cardiovascular procedures w AMI	12/28/2016	1/9/2017	\$83,802	\$27,829	15	\$41,184	\$56,973	67%
Abdulla Hussein Abdulla	058 Other disorders of nervous system	11/4/2016	11/6/2016	\$58,810	\$2,529	16	\$41,829	\$56,281	96%
Adera Betale Woldeamlak	174 Percutaneous cardiovascular procedures w AMI	6/28/2016	6/29/2016	\$37,541	\$4,159	1	\$24,072	\$33,382	89%
Ada I Othman	199 Hypertension	8/29/2016	8/22/2016	\$19,103	\$4,749	12	\$11,482	\$14,354	75%
Adebola Oyedokun	175 Percutaneous cardiovascular procedures w/o AMI	5/19/2016	5/20/2016	\$19,148	\$3,827	4	\$12,957	\$15,321	89%
Adrian Gerard Murphy	483 Kidney & urinary tract infections	9/2/2016	9/16/2016	\$55,539	\$17,814	9	\$17,333	\$37,726	68%
Adrien Lassard Janier	185 Coronary bypass w cardiac cath or	6/26/2016	6/27/2016	\$39,827	\$2,829	4	\$23,469	\$27,998	93%

## 5.2.4 Physician Report

**Physician Report** compares each of the top volume physicians. The blue bars indicate physicians with average payments/LOS/readmission rates above the overall average (across all physicians) and orange bars indicate physicians with averages below the overall average. This report shows:

CHART NAME	DESCRIPTION
Average LOS by Physician	Compares the average length of stay of the index admission APR DRG across physicians.
Average Payment per Episode by Physician	Compares the average episode payment across physicians.
Readmission Rate by Physician	Compares the episode readmission rate by physicians.
Physician Performance Report	Includes similar data from the above three charts for each physician along with the total number of episodes, the average physician payment, and the average readmission payment for each physician.



## 5.2.5 Physician Readmissions

**Physician Readmissions** identifies each readmission by readmission APR DRG and physician. This report provides the date of index admission discharge and readmission date, as well as the total episode payment, readmission payment and total post-discharge payment for each episode with a readmission.

Physician Readmissions

Print Excel

Index Admission Provider Name: (All) Index Admission DRG Family: Acute myocardial infarction Index Admission APR DRG: 190:Acute myocardial infarction Admission Time Period: (Multiple values)

Data Covering Admissions Starting Between March, 2016 - February, 2017

Sort by: Readmission APR DRG

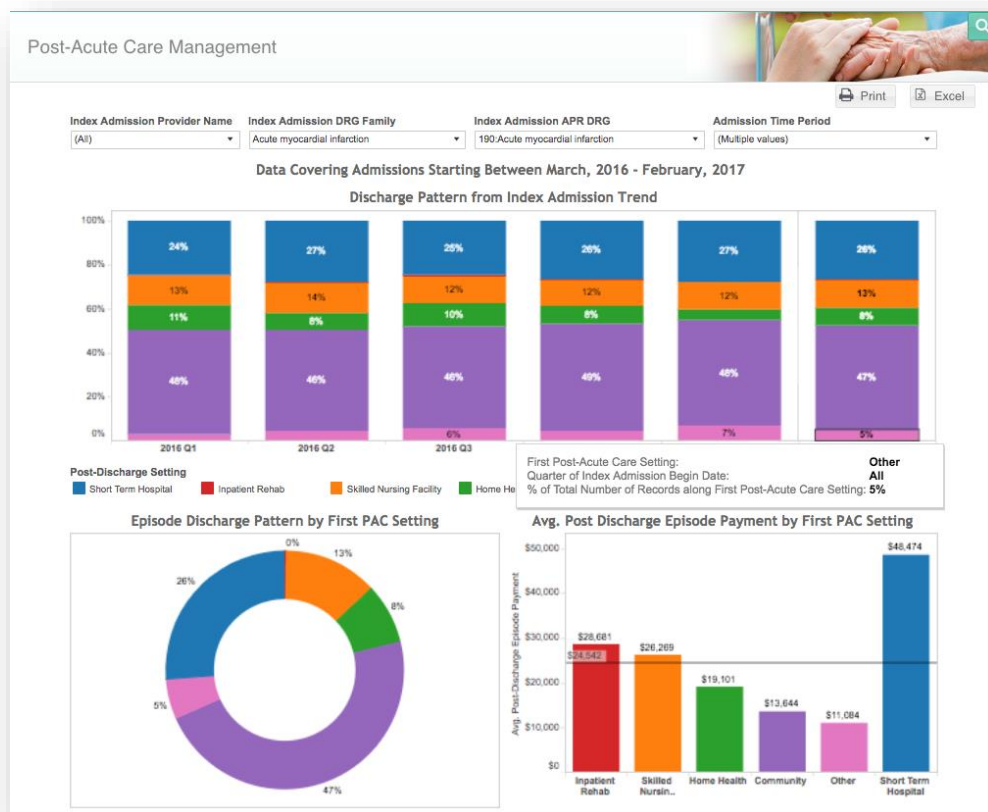
Readmission Details By Readmission APR DRG

		Index Admission Discharge Date	Readmission Date	Readmission LOS	Total Episode Payment	Total Readmission Payment	Total Post-Discharge Episode Payment
001 Liver transplant &/or intestinal transplant	Nagamallika Jasti	3/9/2016	5/28/2016	11	\$116,182	\$194,020	\$112,335
004 Tracheostomy w MV 96+ hours w extensive procedure or ECMO	Brian Barr	9/21/2016	10/31/2016	51	\$175,415	\$154,480	\$167,414
	Navdeep Singh	2/17/2017	2/18/2017	18	\$132,558	\$129,306	\$131,099
021 Craniotomy except for trauma	Rama Shankar	7/22/2016	7/22/2016	24	\$74,736	\$35,712	\$63,670
040 Spinal disorders & injuries	Hooman Bakhshi	2/13/2017	2/13/2017	17	\$181,658	\$117,474	\$147,230
041 Nervous system malignancy	Haimanot Halle	5/17/2016	7/27/2016	2	\$17,484	\$3,022	\$8,235
042 Degenerative nervous system disorders exc mult	Harry Li	4/6/2016	5/21/2016	4	\$28,549	\$5,107	\$19,865
044 Intracranial hemorrhage	Marcelle Pamela Nkombengondo	4/1/2016	4/1/2016	1	\$11,428	\$2,676	\$5,519
	Salim Rick	4/7/2016	4/18/2016	2	\$31,271	\$6,257	\$18,222
045 CVA & precerebral occlusion w infarct	Mark A Sanchez	2/14/2017	2/14/2017	6	\$26,226	\$16,853	\$23,735
	Korah Mathai Pulimood	3/13/2016	3/16/2016	8	\$45,970	\$13,665	\$31,527
	Francois Jacques Gregoire	1/26/2017	1/26/2017	42	\$178,920	\$152,325	\$174,012
	Kahliiz Alekh	6/22/2016	6/7/2016	2	\$29,683	\$6,411	\$23,112
	Tara Ann Ryan	7/3/2016	7/7/2016	6	\$88,787	\$38,691	\$65,085
	Raginder Gill	8/25/2016	8/28/2016	7	\$25,663	\$9,753	\$13,335
	Matthews Chacko	3/6/2016	5/18/2016	2	\$36,172	\$16,549	\$23,199
	Qiyuan Liu	1/14/2017	1/18/2017	4	\$69,385	\$8,034	\$66,517
047 Transient ischemia	Jagdeep Singh	9/6/2016	10/26/2016	7	\$53,733	\$10,967	\$30,094
	Kim K Wun	4/28/2016	5/25/2016	3	\$53,709	\$24,715	\$42,809
	David M Bill	11/22/2016	11/28/2016	1	\$22,331	\$7,645	\$10,772
048 Peripheral, cranial & autonomic nerve disorders	David A. Meyerson	10/6/2016	10/23/2016	2	\$47,533	\$12,315	\$34,102
	Sauvheen Audia Taylor	10/1/2016	10/7/2016	3	\$62,877	\$26,660	\$43,214
052 Nontraumatic stupor & coma	Waseema Abdur Rahman Dalvi	2/4/2017	3/3/2017	4	\$58,507	\$35,068	\$45,563
053 Seizure	Pamela Ouyang	6/29/2016	8/18/2016	20	\$107,935	\$60,521	\$86,447
	George J Pyrgos	9/6/2016	9/6/2016	13	\$61,494	\$43,218	\$50,551
	Peter Smith	10/6/2016	11/2/2016	3	\$67,616	\$20,356	\$66,443
	Anthony J Fley	4/6/2016	5/21/2016	2	\$11,154	\$4,193	\$8,458
054 Migraine & other headaches	Sarah A Schmatzle	10/3/2016	10/21/2016	4	\$24,552	\$10,078	\$17,044
	Wajahath Abbas Moksini	2/14/2017	3/23/2017	1	\$16,747	\$2,900	\$9,458
055 Head trauma w coma >1 hr or hemorrhage	Ledy's Julia Dimasico	8/9/2016	8/26/2016	3	\$24,153	\$11,240	\$18,204
058 Other disorders of nervous system	Kapil Sharma	9/22/2016	11/8/2016	1	\$48,936	\$5,646	\$32,069
	Abdulla Hussein Abdulla	11/6/2016	11/6/2016	16	\$58,810	\$41,820	\$56,281
	Diagobert Sino	2/22/2017	2/22/2017	9	\$29,974	\$14,696	\$20,215
113 Infections of upper respiratory tract	Feras Karadshah	12/25/2016	1/11/2017	4	\$17,317	\$4,520	\$8,687
115 Other ear, nose, mouth, throat & craniofacial dis.	Srilatha Kanumuru	9/29/2016	12/4/2016	2	\$8,819	\$1,584	\$7,008
130 Respiratory system diagnosis w ventilator suppor.	Faiza Hiaz	6/13/2016	6/30/2016	12	\$48,636	\$37,989	\$41,800
133 Pulmonary edema & respiratory failure	Kahliiz Alekh	12/29/2016	1/30/2017	5	\$38,625	\$15,392	\$22,003
	Jeffrey Peter Bui	12/19/2016	2/24/2017	5	\$39,799	\$8,236	\$22,856
	Chukwumeka G Nwosu	1/18/2017	4/6/2017	1	\$18,913	\$2,743	\$9,394

## 5.3 Post-Acute Care Management

**Post-Acute Care Management** shows high-level information based on the discharge pattern from the index admission. This report shows:

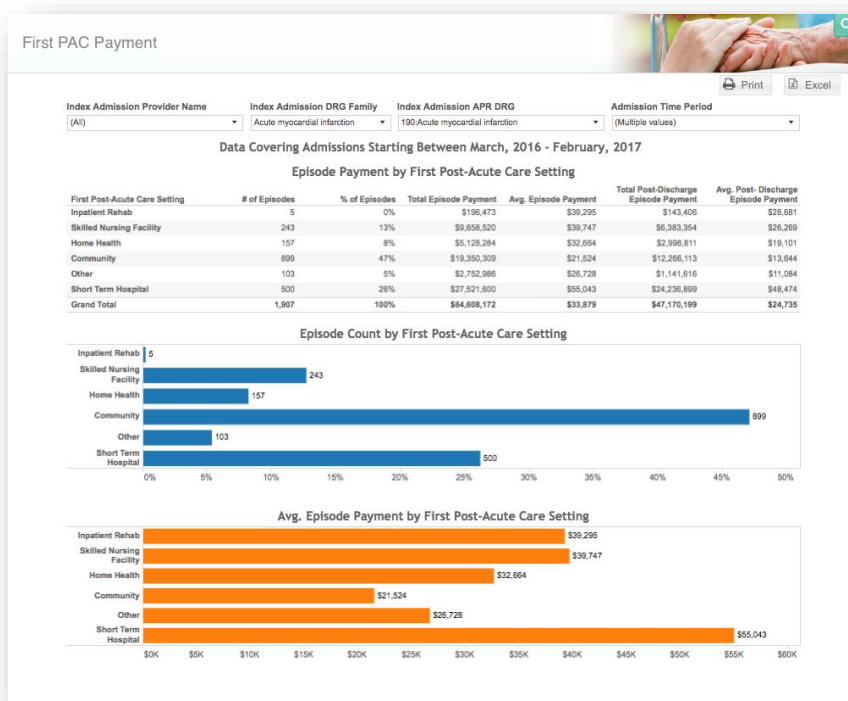
CHART NAME	DESCRIPTION
Discharge Pattern from Index Admission Trend	Shows the index admission discharge pattern trends on a quarterly basis for the chosen time period.
Episode Discharge Pattern by First PAC Setting	Illustrates the percentage of episodes discharged by first post-acute care setting.
Avg. Post Discharge Payment by First PAC Setting	Provides the average post-discharge payment by first post-acute care setting.



## 5.3.1 First PAC Payment

**First PAC Payment** contains episode count and payment information based on the first discharge setting following discharge from the acute care hospital. This report shows:

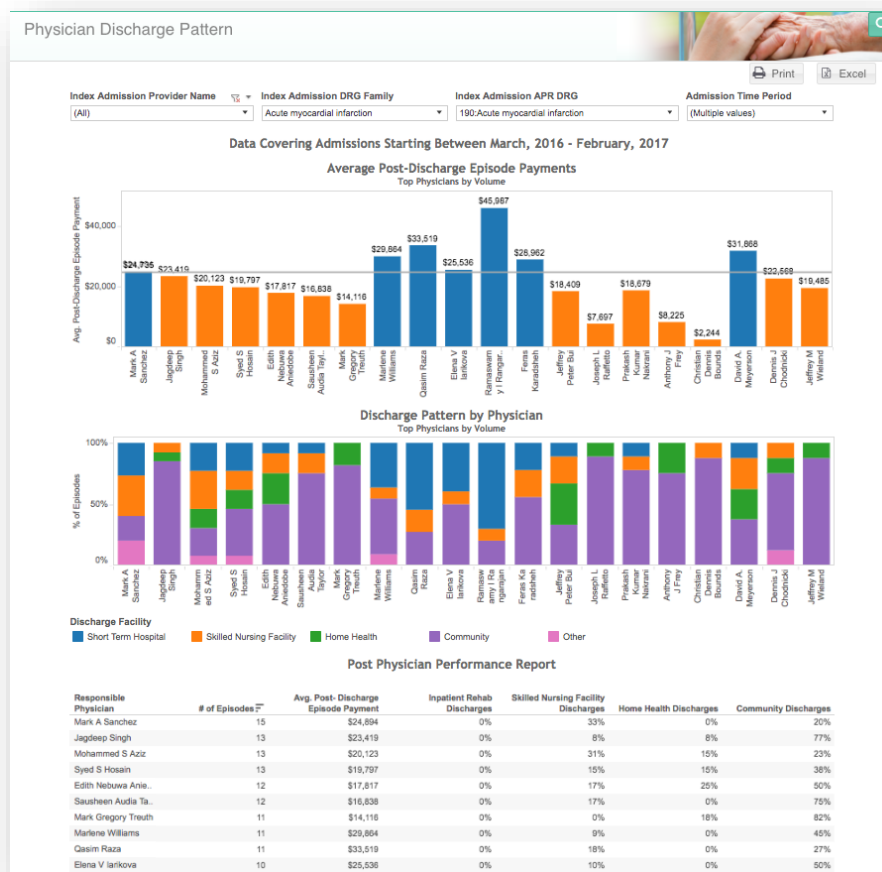
CHART NAME	DESCRIPTION
<b>First Post-Acute Setting Payment Report</b>	Details the episode count, total episode payment, and total post-discharge payment by first post-acute care setting.
<b>Episode Count by First Post-Acute Care Setting</b>	Displays the number of episodes related to the first post-acute care setting.
<b>Avg. Episode Payment by First Post-Acute Care Setting</b>	Provides the average episode payment for each of the first post-acute care settings.



## 5.3.2 Physician Discharge Pattern

**Physician Discharge Pattern** compares physicians based on the post-acute care settings to which they discharge. This report shows:

CHART NAME	DESCRIPTION
Average Post-Discharge Payments	Shows the average post-discharge episode payment for each of the top volume physicians and overall. The blue bars indicate physician average post-discharge episode payments above the overall average and orange is below.
Discharge Pattern by Physician	Illustrates the discharge pattern for each of the top volume physicians by the percentage of discharges to each first post-acute care setting.
Post Physician Performance Report	Provides similar detail of the two charts above for each physician, including their episode volume.



## 5.3.3 Inpatient Rehabilitation Report

**Inpatient Rehabilitation Report** compares the top volume Inpatient Rehabilitation Facilities (IRF). The blue bars indicate IRFs with an average LOS, payment per episode and readmission rate, above the overall average and orange represents IRFs with averages below the overall. This report shows:

CHART NAME	DESCRIPTION
Avg. LOS by Inpatient Rehab Facility	Shows the average length of stay for the IRF admission for each of the top volume facilities.
Avg. Payment per Episode by Inpatient Rehab Facility	The average episode payment for each of the top volume facilities.
Readmission Rate by Inpatient Rehab Facility	The average readmission rate for each of the top volume facilities. Note that the readmissions are not necessarily from that specified facility; rather, the readmissions are during the 90-day post-discharge episode but are characterized by the first post-acute care setting facility.
Inpatient Rehab Facility Report	For each of the IRFs shown in the above charts, this table shows the number of episodes, average length of stay, and average episode payment.





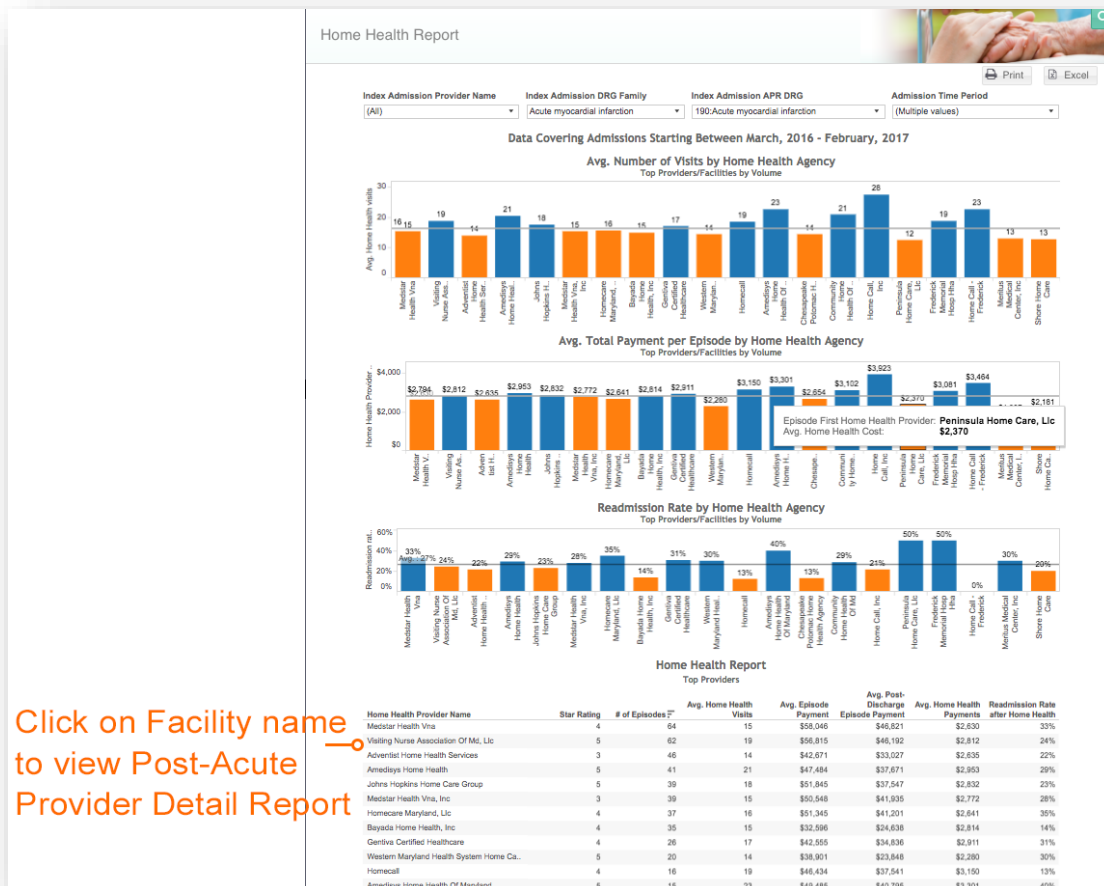




## 5.3.5 Home Health Report

**Home Health Report** compares the top volume Home Health Agencies (HHA). The blue bars indicate Home Health agencies with an average number of home health visits, payment per episode and readmission rate, above the overall average and orange represents HHAs with averages below the overall. This report shows:

CHART NAME	DESCRIPTION
Avg. Number of Visits by Home Health Agency	Shows the average number of visits for each of the top volume agencies.
Avg. Total Payment per Episode by Home Health Agency	The average episode payment for each of the top volume agencies.
Readmission Rate by Home Health Agency	The average readmission rate for each of the top volume agencies. Note that the readmissions are not necessarily from that specified agency; rather, the readmissions are during the 90-day post-discharge episode but are characterized by the first post-acute care setting agency.
Home Health Report	For each of the providers shown in the above charts, this table gives the number of episodes, average Home Health visits, and average episode payment.



## 5.3.6 Sequence of Care

**Sequence of Care** illustrates the top 20 post-acute care sequences by volume. This report provides information regarding episode volume, total and average episode payments, and total and average post-discharge episode payments for each sequence. The provider types mentioned in this report include:

Provider Type	Provider Type Description
A	Short Term Hospital
I	Inpatient Rehabilitation Facility
S	Skilled Nursing Facility
H	Home Health Agency
C	Community
E	Emergency Department Visit
P	Outpatient Therapy
D	DME
L	Acute Long Term Care Hospital
Z	Other Inpatient Hospital
T	Hospice

Sequence of Care

Roster: Select Roster

Index Admission Provider Name: [All] Index Admission DRG Family: [All] Index Admission APR DRG: [All] Admission Time Period: [Multiple values]

Data Covering Admissions Starting Between February, 2018 - April, 2018

Post-Discharge Care Sequence

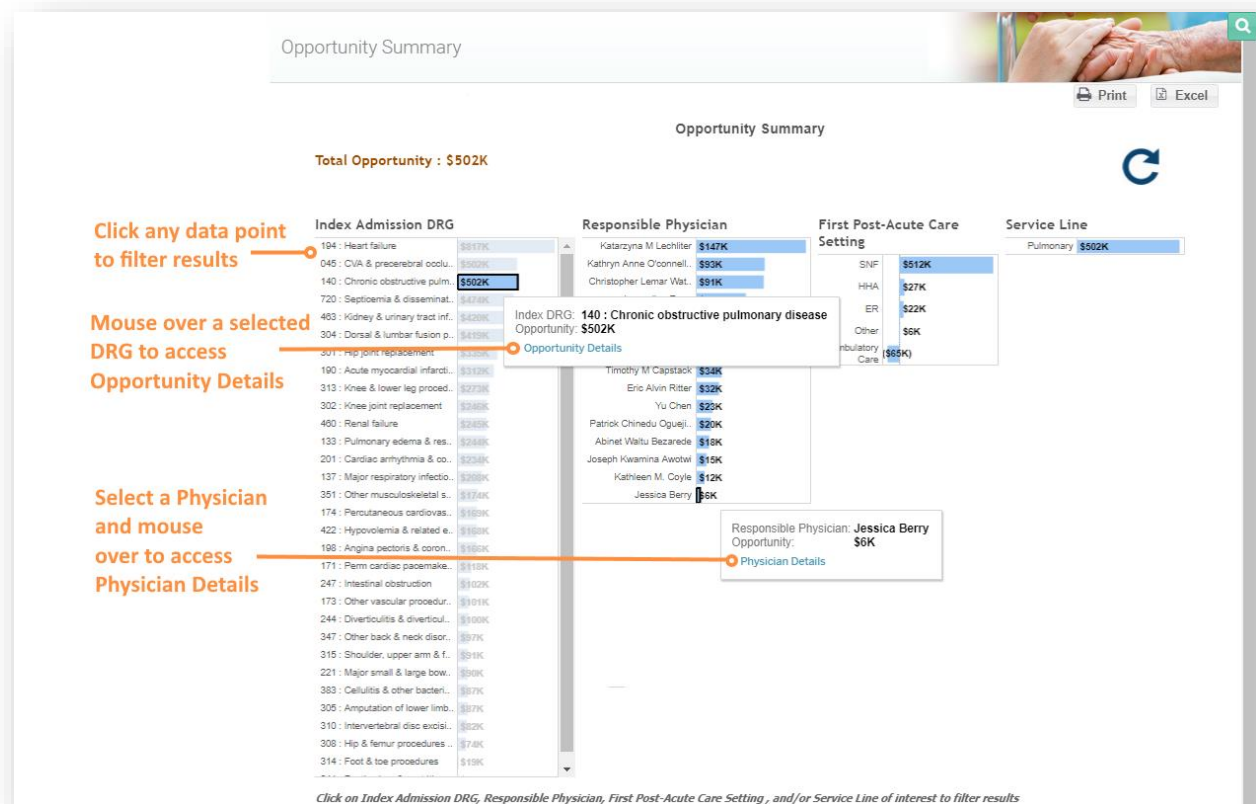
Episode Sequence	Index Admission S.	# of Episodes	Total Episode Payment	Avg. Episode Payment	Total Post-Discharge Episode Payment	Avg. Post-Discharge Episode Payment
A-C	1: Minor	897	\$14,071,561	\$15,667	\$2,436,509	\$2,716
	2: Moderate	2,944	\$39,442,730	\$13,398	\$9,142,699	\$3,106
	3: Major	2,130	\$30,914,611	\$14,514	\$9,150,637	\$4,296
	4: Extreme	299	\$8,869,385	\$29,463	\$1,405,410	\$4,700
A-H-C	1: Minor	316	\$7,859,406	\$24,872	\$1,910,764	\$6,047
	2: Moderate	884	\$20,852,381	\$23,589	\$5,517,933	\$6,242
	3: Major	631	\$15,919,161	\$25,228	\$4,425,752	\$7,014
	4: Extreme	117	\$4,469,519	\$38,201	\$884,223	\$7,557
A-S-C	1: Minor	107	\$3,300,877	\$30,849	\$1,622,043	\$15,159
	2: Moderate	425	\$13,333,595	\$31,373	\$6,672,495	\$15,700
	3: Major	472	\$15,552,325	\$32,950	\$7,841,451	\$16,613
	4: Extreme	113	\$5,066,759	\$45,016	\$2,101,815	\$18,660
A-S-H-C	1: Minor	112	\$3,649,366	\$32,584	\$1,749,784	\$15,623
	2: Moderate	365	\$12,593,425	\$34,503	\$6,022,717	\$16,501
	3: Major	268	\$9,373,459	\$35,299	\$4,731,902	\$17,789
	4: Extreme	55	\$2,991,619	\$54,383	\$1,232,172	\$22,403
A-T	1: Minor	10	\$181,979	\$18,198	\$95,916	\$9,592
	2: Moderate	84	\$1,303,431	\$15,517	\$613,682	\$7,306
	3: Major	376	\$6,974,616	\$18,550	\$2,704,500	\$7,406
	4: Extreme	265	\$8,372,161	\$29,376	\$2,021,132	\$7,692
Total Episodes		22,629	\$732,714,380	\$32,379	\$404,281,837	\$17,866

A = Acute Care Hospital  
I = Inpatient Rehabilitation  
S = Skilled Nursing Facility  
H = Home Health Agency  
C = Ambulatory Care  
E = Emergency Room  
L = Long Term Care Hospital  
Z = Inpatient Other  
T = Hospice

## 5.3.7 Opportunity Summary

**Opportunity Summary** highlights the areas of savings opportunities within the hospital/system. This report does not support roster-specific analyses and will run using a hospital/system's entire attributed population based on a user-selected attribution method with segmentation by DRG, Physician, PAC Setting, and Service Line. Selecting any row will filter the remaining columns. This report includes:

COLUMN NAME	DESCRIPTION
Index Admission DRG	Savings opportunity for each APR DRG of the index hospital admission.
Responsible Physician	Savings opportunities attributed to each responsible physician.
Discharge Provider Type	Savings opportunity attributed to each first post-acute care setting following discharge from the index hospital.
Service Line	Savings opportunity attributed to each Service Line associated with the APR DRG of the index hospital admission.



Selecting a DRG in the Opportunity Summary allows for a drill down to a report for the **Opportunity Details**. This report is the same as 5.3.8 Post-Acute Variance Explorer (PAVE) Savings Opportunity, filtered to the selected DRG. See 5.3.8 for information about this report.

## 5.3.7.1 Episode Details

**Episode Details** lists every claim that occurred during the selected episode. Selecting any claim will populate the bottom table with the details of the selected claim.

Return to previous page  
Click on Episode data value to view details in the table

Episode Start Date	Episode End Date	Claim From Date	Claim Through Date	Claim Type	Servicing Provider	Primary Diagnosis	DRG	Amount
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Short Term Hospital	MedStar Franklin Square Medical Ce...	I638 : Other cerebral infarction	I045 : CVA & precerebral occlu...	\$7,545
8/12/2016	8/16/2016	8/12/2016	8/16/2016	SNF	Oak Crest Village	I89388 : Other sequelae of cer...		\$8,888
8/12/2016	8/16/2016	8/12/2016	8/16/2016	SNF	Oak Crest Village	I89388 : Other sequelae of cer...		\$4,377
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Outpatient	Oak Crest Village Rehab Agency	I89388 : Other sequelae of cer...		\$733
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Home Health	Johns Hopkins Home Care Group	I89054 : Hemiplegia following st...		\$4,156
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Outpatient	Oak Crest Village Rehab Agency	I89388 : Other sequelae of cer...		\$1,004
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Physician		Z8673 : Prior hx of TIA (TIA), ..		\$36
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Physician		I700 : Atherosclerosis of aorta		\$53
8/12/2016	8/16/2016	8/12/2016	8/16/2016	Physician		I630 : Cerebral infarction, uns...		\$237

**Claims Details**

Diagnosis Details	HCPCS/Proc Code Details	Revenue Center Details
I10 : Essential (primary) hypertension	ZCPR1 : Early Episode, 14-19 therapies, Clinical Severity Level 3, F...	0023 : Home Health services paid under PPS submitted as TOB 3
I69021 : Dysphasia following nontraumatic subarachnoid hem	G0151 : Htcp-Serv Of Pts,ea 15 Min	0421 : Physical Therapy - Visit Charge
I69022 : Dysarthria following nontraumatic subarachnoid hem	G0152 : Htcp-Serv Of Otc,ea 15 Min	0431 : Occupational Therapy - Visit Charge
I69054 : Hemiplegia following stem subarach hemor aff left non	G0153 : Htcp-Svs Of S/L Path,ea 15min	0441 : Speech-Language Pathology - Visit Charge
M159 : Polyosteoarthritis, unspecified	G0156 : Htcp-Svs Of Adc,ea 15 Min	0551 : Skilled Nursing - Visit Charge
	G0163 : Hhc Lpr/Hc Uts/Asses Ea 15	0571 : Home Health Aide - Visit Charge
	G0164 : Hhc Lia Nurse Train Ea 15	
	G5001 : Hospice Or Home Hlth In Home	

## 5.3.8 Post-Acute Variance Explorer (PAVE) Savings Opportunity

**PAVE** uses hMetrix’s proprietary technology to cluster groups of physicians based on similar practice patterns. This report does not support rosters and will run using a hospital’s entire attributed population based on a user-selected attribution method for a selected DRG. The heuristics in PAVE that account for low volume may prevent some physicians’ data from being clustered, so the volume numbers presented may not match the volume elsewhere in MADE. This is done to ensure savings estimates are robust and reliable. Note that PAVE requires a minimum episode volume to establish robust clusters; DRGs with volume below this threshold are not displayed. This report includes:

CHART NAME	DESCRIPTION
<b>Post-Acute Savings Opportunity Summary</b>	Shows the savings opportunity for each APR DRG if the average post-discharge payments related to each physician were replaced with the average in the highest performing cluster.
<b>Physician Cluster Summary</b>	Provides a summary of the number of discharges, physicians and the average post-discharge episode payment in each cluster.
<b>Discharge Pattern by Physician</b>	Discharge patterns for each physician by percent of discharges to the first post-acute care setting.
<b>Post-Discharge Payment by Physician</b>	Illustrates the average post-discharge payment for each physician in a cluster and compares it to the average for the other clusters.
<b>Highest Performing Cluster – Discharge Pattern</b>	Represents the high performing cluster’s average discharge pattern by percent of distribution.
<b>Highest Performing Cluster – Payment Split</b>	Represents the high performing cluster’s average post-discharge payment and its split between the different post-acute care settings.

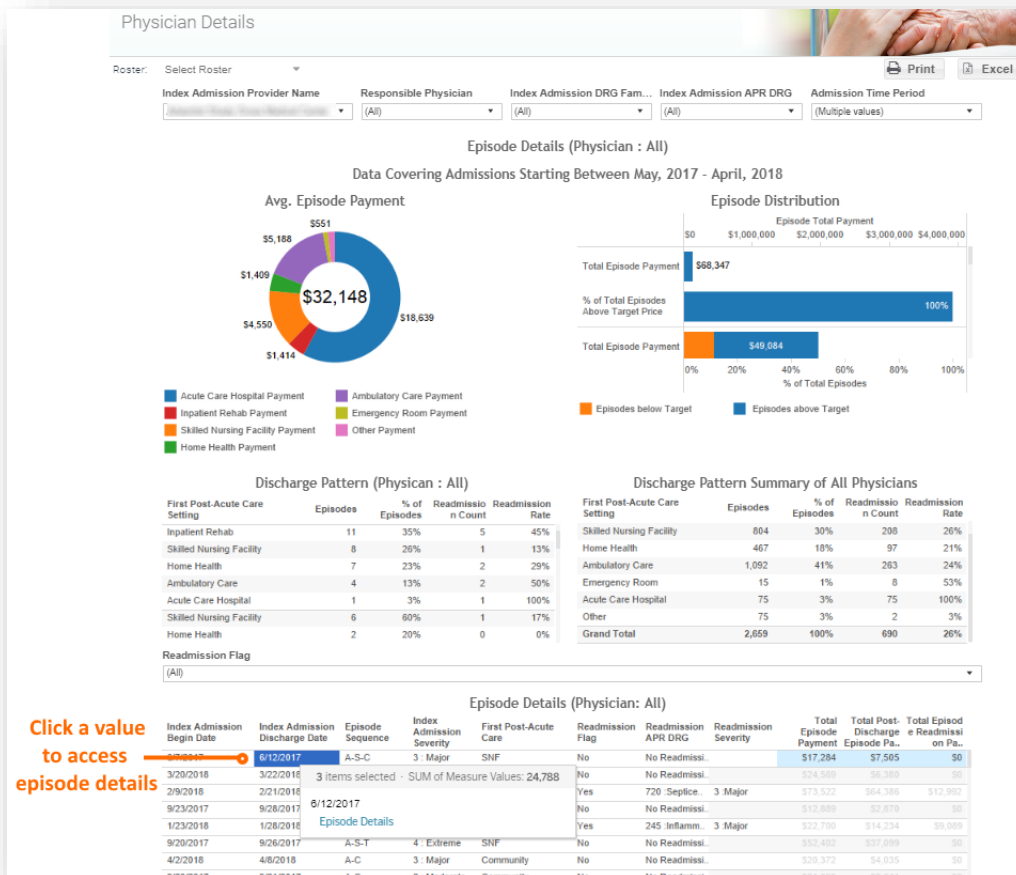


## 5.4 Drill-Down Analytics

### 5.4.1 Physician Details

**Physician Details** shows the key episode metrics of a specified physician. This report shows:

CHART NAME	DESCRIPTION
Avg. Episode Payment	Shows the physician's average episode payments by setting.
Episode Distribution	Provides the distribution of episodes, by percent of total episodes and average episode payment, for those above and below the target price for the selected physician.
Discharge Pattern	Provides the distribution of first post-acute care setting and readmission rates for the selected physician. Selecting a row filters the Episode Details table for that setting.
Discharge Pattern Summary of All Physicians	Provides the distribution of first post-acute care setting and readmission rates for all physicians to allow for comparison.
Episode Details	Provides details on all episodes for the selected physician. Filtering can isolate only those episodes with readmissions.



## 5.4.2 Post-Acute Provider Details

**Post-Acute Provider Details** shows the key episode metrics of a particular post-acute care provider. When accessed directly via the menu, this report will show all first PAC settings including settings that will not include provider information (Ambulatory Care, Acute Care Hospital, Emergency Room). This report shows:

CHART NAME	DESCRIPTION
<b>Post-Acute Provider Details</b>	Details the number of episodes, readmissions, and episode payments related to the selected post-acute provider.
<b>Post-Acute Provider Summary of All Providers</b>	Details the number of episodes and episode payments related to all post-acute providers categorized by presence of a readmission.
<b>Physician Discharge to All PAC</b>	Identifies the physicians who discharged to the selected post-acute provider, along with the volume of episodes and episode payments.
<b>Episode Details</b>	Lists all episodes for the Post-Acute Provider when it was the first PAC setting.

Post-Acute Provider Details

Roster: Select Roster

First Post-Acute Care Provider: (All) Index Admission Provider Name: (All) Index Admission DRG Family: (All) Index Admission APR D...: (All) Admission Time Period: (Multiple values)

Data Covering Admissions Starting Between April, 2017 - March, 2018

Post-Acute Care Provider Details (PAC :All)

First Post-Acute Care Setting	First Post-Acute Care Provider	Readmission Flag	Episodes	% of Total Episodes	Avg. Episode Payment	Post-Acute Care Payment	Avg. First Post-Discharge Episode Payment	Avg. Post-Discharge Episode Payment
Ambulatory Care		No	744	74%	\$13,777	\$3,647	\$5,074	
		Yes	256	26%	\$43,274	\$5,371	\$34,617	
Acute Care Hospital		Yes	70	100%	\$64,760	\$4,626	\$53,668	
Emergency Room		No	8	57%	\$26,660	\$2,788	\$6,700	
		Yes	6	43%	\$55,329	\$4,857	\$42,422	
Home Health	Adventist Home Health Services	No	281	77%	\$26,896	\$2,787	\$7,232	
		Yes	83	23%	\$46,081	\$2,869	\$37,613	
	Frederick Memorial Hosp Hba	No	15	94%	\$26,143	\$2,819	\$6,228	
		Yes	1	6%	\$26,680	\$2,953	\$9,375	

Post-Acute Care Provider Summary of All Providers

Readmission Flag	Episodes	% of Total Episodes	Avg. Episode Payment	Avg. First Post-Acute Care Payment	Avg. Post-Discharge Episode Payment
No	1,835	73%	\$24,258	\$5,869	\$11,450
Yes	676	27%	\$55,515	\$6,761	\$42,659

Physician Discharge to All PAC

Responsible Physician	Readmission Flag	Episodes	Avg. Episode Payment	Avg. First Post-Acute Care Payment	Avg. Post-Discharge Episode Payment
Alan Stuart Chanales	Yes	2	\$67,954	\$19,063	\$58,334
Alanna Yu Ting Teng	No	35	\$12,372	\$3,171	\$5,103
	Yes	8	\$34,477	\$2,671	\$26,962
Albert Enow Takem	Yes	1	\$25,159		\$22,414
Alexander N. Kinnaird	No	43	\$12,087		\$5,164
	Yes	23	\$46,014	\$2,355	\$37,259
Alexander Sebastian Asser	No	8	\$33,272		\$6,216
	Yes	1	\$54,426		\$6,685
Alpa Vinodhai Patel	No	28	\$14,174	\$2,344	\$6,813

Episode Details (PAC :All)

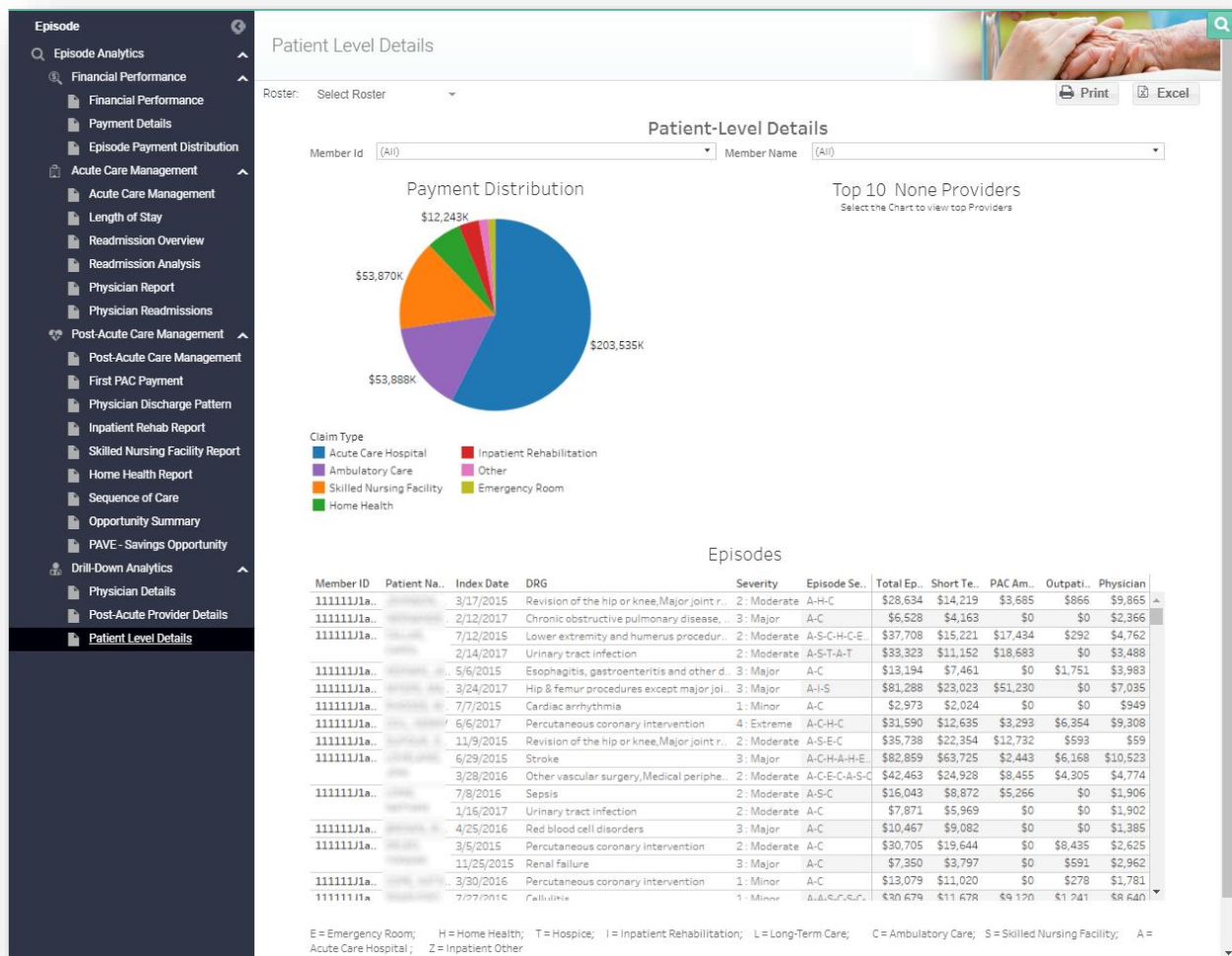
Index Admission Begin Date	Index Admission Discharge Date	Episode Sequence	Responsible Physician	Readmission Flag	Total Episode Payment	Total Post-Discharge Episode Payment
8/10/2017	8/24/2017	A-S-H-C	Alan Stuart Chanales	No	\$43,626	\$12,580
1/9/2018	1/12/2018	A-I-A-S-H-C	Alan Stuart Chanales	Yes	\$57,734	\$44,974
5/10/2017	5/12/2017	A-H-C	Alanna Yu Ting Teng	No	\$32,993	\$7,053
9/25/2017	9/26/2017	A-H-C	Alanna Yu Ting Teng	No	\$39,480	\$8,964
2/8/2018	2/12/2018	A-S-H	Alanna Yu Ting Teng	No	\$71,198	\$49,522
11/19/2017	11/21/2017	A-C	Albert Enow Takem	No	\$23,445	\$6,270
5/4/2017	5/9/2017	A-C	Alexander N. Kinnaird	No	\$6,900	\$1,303
4/21/2017	4/22/2017	A-C	Alexander N. Kinnaird	No	\$2,140	\$761
7/22/2017	7/24/2017	A-C-E-C	Alpa Vinodhai Patel	No	\$6,914	\$2,681



## 5.4.3 Patient-Level Details

Patient-Level Details shows the key episode metrics of a particular patient. This report shows:

CHART NAME	DESCRIPTION
Payment Distribution	Provides the distribution of episode payment, for a patient or roster of patients by care setting.
Top 10 Providers	Provides the claim count and paid amount across episodes for the patient or roster of patients for the top 10 providers across all care settings.
Episodes	Provides details on all episodes for the selected patient or roster of patient including index APR DRG severity. Drill through accesses all patient claims during the episode



## 6 PHARMACY ANALYTICS

The Pharmacy module contains several reports that provide prescription drug utilization by volume, payment, high-risk medications, and top therapeutic category, among others. This module contains both detailed reports that allow for drill-through down to patient-level claims data, as well as summary reports. Pharmacy Analytics includes pharmacy utilization for Part B and D prescription drugs. For detailed information about the data sources used in this module, refer to the topic in CCLF Data Basics titled “CCLF”.

Part D pharmacy payments are estimated using the published average wholesale price (AWP) for the respective medication.

### 6.1 Top 200 Drugs

**Top 200 Drugs** report outlines drugs (by drug name and brand/generic formulation) by claim count, ingredient cost, cost per claim, and average day supply. Click the drug name or BRAND/generic to populate the **BRAND/generic Detail report**. Hover over the Drug Name or Brand/generic to access the **Top 200 Drugs Detail Report**.

Click drug name to populate the BRAND table  
Hover over Drug Name to view Detail Report

Top 200 Drugs										
										Drug Name: (All)
Drug Name	BRAND/generic	Strength Description	Claim Count	Rank by Claim Count	Claim Count %	Cost	Average Cost per Claim	Rank by Cost	Cost %	Avg. Days Supply
furosemide	furosemide	20 mg	138,594	7	1.0%	\$1,218,319	\$8.79	611	0.0%	45.1
tamsulosin	8 items selected - SUM of Measure Values: 1,357,585		8	1.0%	\$33,523,879	\$285.40	10	0.9%	55.0	
omeprazole			9	0.9%	\$52,003,145	\$389.44	5	1.2%	49.0	
furosemide			10	0.9%	\$1,557,971	\$12.32	530	0.0%	49.5	
atorvastatin			11	0.9%	\$58,804,153	\$466.46	4	1.3%	64.1	
metFORMIN	Top 200 Drugs Detail Report		12	0.8%	\$10,777,761	\$90.84	71	0.2%	58.2	
metoprolol	metoprolol tartrate	25 mg	112,923	13	0.8%	\$2,894,443	\$25.63	326	0.1%	51.7
gabapentin	gabapentin	300 mg	108,043	14	0.8%	\$18,323,633	\$169.60	38	0.4%	42.0
atorvastatin	atorvastatin calcium	10 mg	106,099	15	0.7%	\$37,301,377	\$351.57	11	0.9%	63.0
hydroCHLOR.	hydrochlorothiazide	25 mg	105,986	16	0.7%	\$1,332,665	\$12.57	581	0.0%	65.1
fluticasone n.	fluticasone propion.	50 mcg/nh	101,118	17	0.7%	\$11,126,401	\$110.03	68	0.3%	40.0
lisinopril	lisinopril	20 mg	97,479	18	0.7%	\$7,188,656	\$73.75	131	0.2%	61.7
metoprolol	metoprolol succinat.	25 mg	92,503	19	0.6%	\$7,420,532	\$80.22	127	0.2%	60.4
lisinopril	lisinopril	10 mg	91,183	20	0.6%	\$5,665,593	\$62.13	164	0.1%	60.3
pravastatin	pravastatin sodium	40 mg	87,861	21	0.6%	\$26,944,510	\$306.67	21	0.6%	64.8
lisinopril	lisinopril	40 mg	87,392	22	0.6%	\$8,954,450	\$102.46	97	0.2%	61.2
simvastatin	simvastatin	20 mg	85,119	23	0.6%	\$27,937,533	\$328.22	20	0.6%	66.3
losartan	losartan potassium	100 mg	84,127	24	0.6%	\$31,676,250	\$376.53	15	0.7%	66.3
metoprolol	metoprolol succinat.	50 mg	83,994	25	0.6%	\$7,418,863	\$88.33	128	0.2%	63.3
omeprazole	omeprazole	40 mg	80,633	26	0.6%	\$36,581,481	\$453.68	12	0.8%	56.1
metFORMIN	metformin hydrochl.	1000 mg	78,385	27	0.5%	\$13,855,967	\$176.77	52	0.3%	61.8
oxyCODONE	oxycodone hydrochl.	5 mg	78,178	28	0.5%	\$2,985,631	\$39.19	318	0.1%	15.5
latanoprost	latanoprost ophthal.	0.005%	77,534	29	0.5%	\$6,317,645	\$81.48	147	0.1%	45.0
ranITidine	ranitidine hydrochl.	150 mg	76,449	30	0.5%	\$9,058,553	\$118.49	94	0.2%	43.8
montelukast	montelukast sodium	10 mg	76,269	31	0.5%	\$18,990,154	\$248.99	36	0.4%	54.6

BRAND/generic Details of furosemide								
Drug Name	BRAND/generic	Strength Description	Claim Count	Claim Count %	Cost	Cost %	Average Cost per Claim	Avg. Days Supply
furosemide	furosemide	10 mg/mL	674	0.2%	\$12,342	0.4%	\$18.31	16.1
		20 mg	138,594	49.5%	\$1,218,319	37.6%	\$8.79	45.1
		40 mg	126,504	45.2%	\$1,557,971	48.1%	\$12.32	49.5
		40 mg/5 mL	31	0.0%	\$620	0.0%	\$20.01	32.8
		80 mg	13,944	5.0%	\$426,921	13.2%	\$30.62	51.1
LASIX		20 mg	90	0.0%	\$5,231	0.2%	\$58.12	47.5

## 6.1.1 Top 200 Drugs Detail Report

**Top 200 Drug Detail** report lists all claims for the selected drug. You can filter the report by prescriber name, member name, and pharmacy name. Click on Patient Summary or Patient Timeline to see more information on the patient or click on the back button to return to previous page.

**Return to previous page**

**Filters**

**Patient Timeline**

**Patient Summary**

Top 200 Drugs Detail Report

Print Excel Create Roaster View Patient Summary

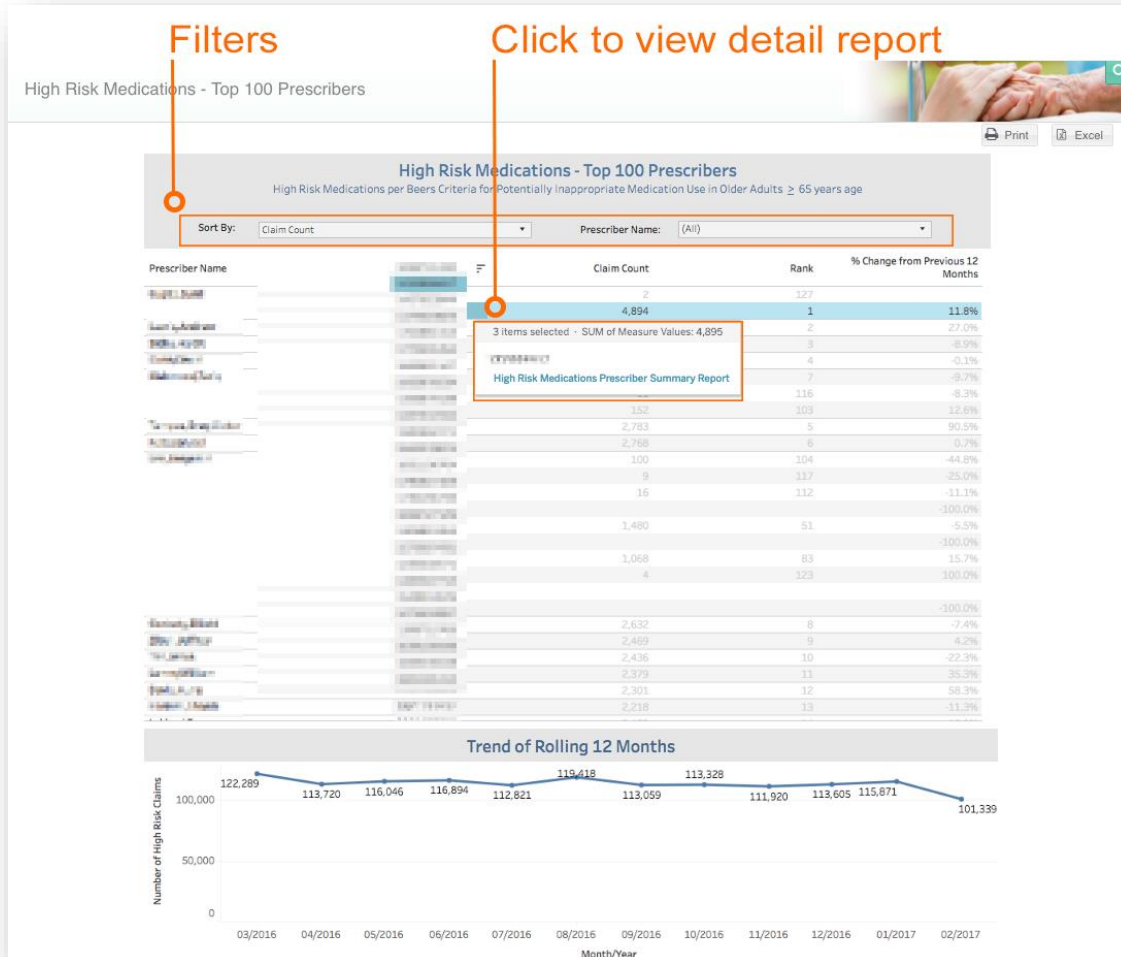
**Top 200 Drugs Detail Report - amlodipine besylate-5 mg**  
Reporting Time Period: 07/01/2016-06/30/2017

Prescriber Name: (All) Member Name: (All) Pharmacy Name: (All)

Prescriber Name	Prescriber NPI	Pharmacy Name	Member Name	Member ID	Date Filled	Quantity	Avg. Days Supply	Copay	Cost
		ADVANCERX COM L.L.C.				90	90.0	\$10.00	\$165.69
						90	90.0	\$10.00	\$165.69
		COSTCO WHOLESALE CORPORATION				90	90.0	\$8.75	\$169.75
						90	90.0	\$15.08	\$176.08
						90	90.0	\$15.08	\$176.08
						45	90.0	\$2.61	\$83.11
		GIANT OF MARYLAND LLC				90	90.0	\$2.01	\$157.66
						90	90.0	\$2.01	\$157.66
						90	90.0	\$2.02	\$157.67
						90	90.0	\$2.16	\$157.81
						90	90.0	\$12.00	\$167.65
						90	90.0	\$12.00	\$167.65
						14	14.0	\$2.24	\$26.45
						90	90.0	\$1.10	\$156.75
						180	90.0	\$4.32	\$346.74
						180	90.0	\$4.32	\$315.61
						180	90.0	\$23.99	\$335.28
						180	90.0	\$23.99	\$335.28
		HARRIS TEETER, INC				90	90.0	\$15.00	\$170.86
						90	90.0	\$15.00	\$170.86
						90	90.0	\$15.00	\$170.86
						90	90.0	\$15.00	\$170.86
		HUMANA PHARMACY INC				90	90.0	\$0.00	\$155.86
						90	90.0	\$8.00	\$163.86
						90	90.0	\$0.00	\$155.86
						90	90.0	\$0.00	\$155.86

## 6.2 High Risk Medications – Top 100 Prescribers

**High Risk Medications Top 100 Prescribers** identifies the top 100 prescribers that are prescribing medications identified as potentially high-risk according to Beers criteria for potentially inappropriate medication use in older adults (> 65 years of age or older). The report displays the number of high risk medication claims by prescriber and the change from the previous 12 months. Click on Prescriber Name or Prescriber NPI to view detailed reports.



## 6.2.1 High Risk Medications Prescriber Summary

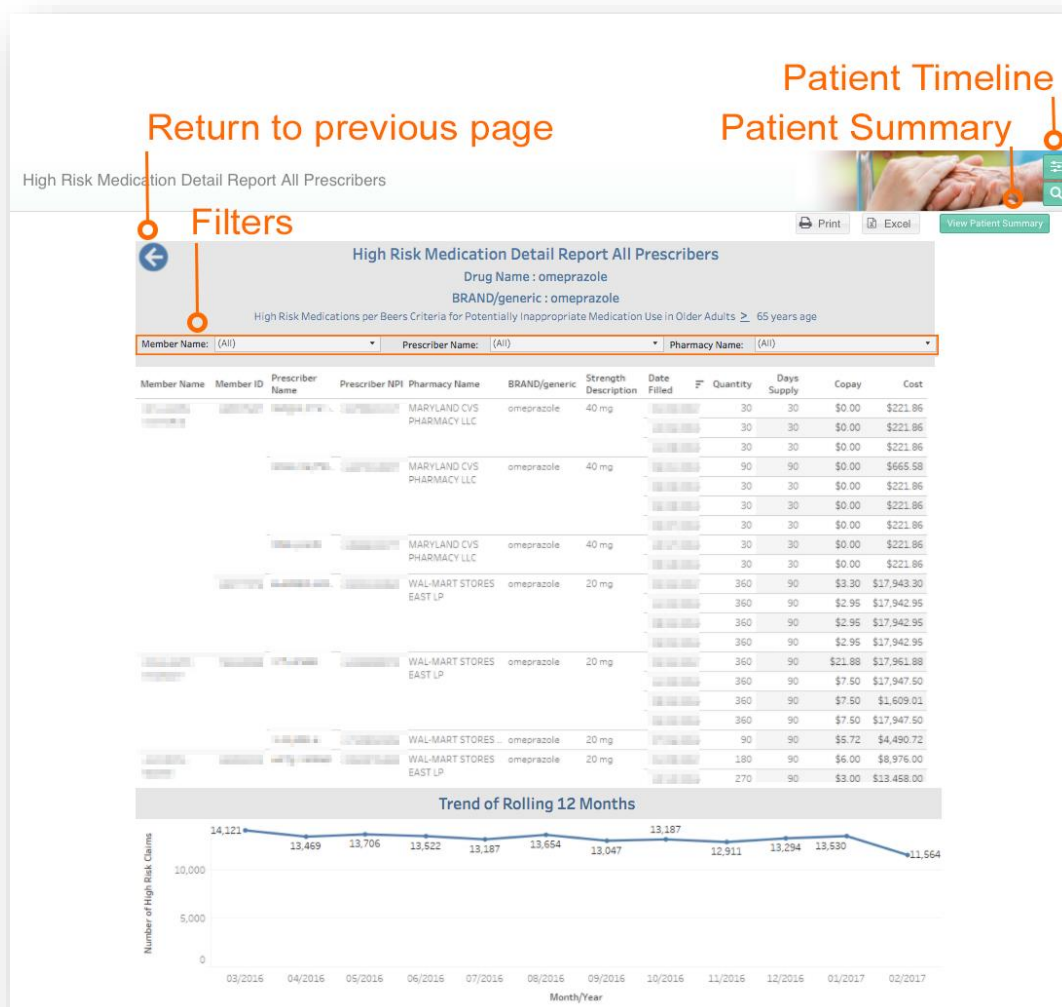
**High Risk Medication Prescriber Summary** lists the medications identified as potentially high risk according to Beers criteria for potentially inappropriate medication use in older adults (> 65 years of age or older) by selected Prescriber. The report lists the medication prescribed and corresponding claim count. To access this report, select the **High Risk Medication Top 100 Prescribers** and click on the Provider Name. Click on the Drug Name or BRAND/generic to view the **High Risk Medication Detail Report by Prescriber** and **High Risk Medication Detail Claims Report**. Patient-level claims information is available by clicking on Patient Summary and Patient Timeline.



## 6.2.2 High Risk Medication Detail Report All Prescribers

**High Risk Medication Detail Report All Prescribers** report provides detailed claims information for all prescribers for the selected high-risk medication. The report can be sorted by member name, prescriber name, pharmacy name, among other fields. The trend graph illustrates the number of claims for specified drug across all prescribers by month.

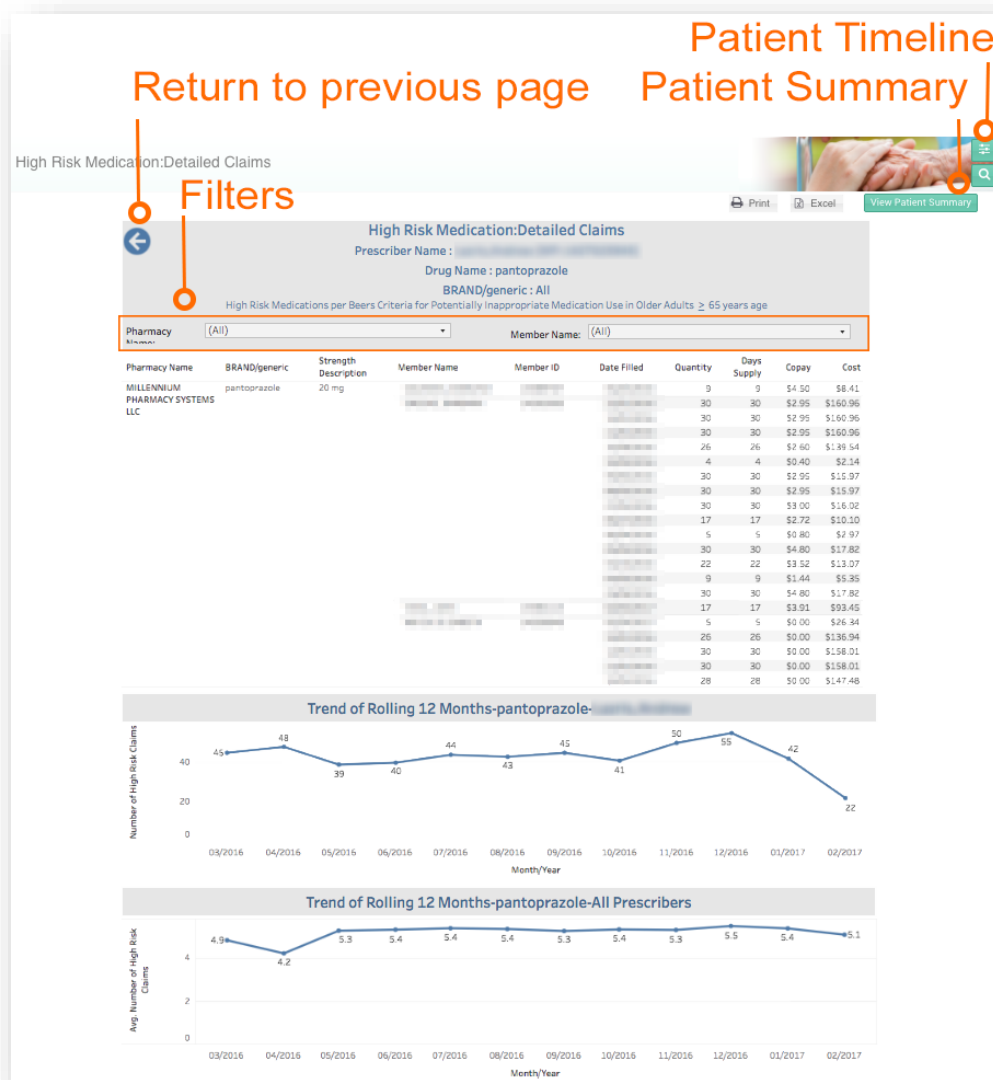
To access this report, select a drug name from the **High-Risk Medications Prescriber Summary** report and click on the **High Risk Medication Detail Report All Prescribers**. Patient-level claims information is available by clicking on Patient Summary and Patient Timeline. Click the back button to return the previous report.



### 6.2.3 High Risk Medication Detailed Claim by Prescriber

**High Risk Medication Detailed Claim by Prescriber** report provides detail claims information for a specific high-risk medication and prescriber including the Pharmacy name, Member Name, date filled, ingredient cost, and patient copayment. The first trend graph illustrates the number of claims for specified drug prescribed by the selected prescriber for the last 12 months. The second trend graph illustrates the average number of claims for the same drug across all prescribers by month.

To access this report, select a drug from the **High-Risk Medications Prescriber Summary** report click on the **High Risk Medications Detailed Claim by Prescriber** report. Patient-level claims information is available by clicking on Patient Summary and Patient Timeline. Click on the back button to return to the previous report.





## 6.3 High-Risk Medications – Top 100 Prescriptions

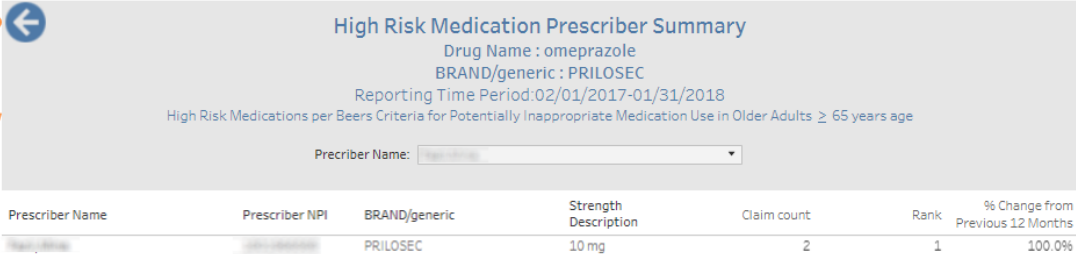
**High-Risk Medications – Top 100 Prescriptions** report displays top 100 high-risk medications identified as potentially high-risk according to Beers criteria for potentially inappropriate medication use in older adults (> 65 years of age or older). This report contains the drug name, brand/generic formulation, strength, claim count and percent change in claim count from previous 12 months. The trend graph illustrates the number of claims across the top 100 high-risk medications by month.





From this report, select a drug to access the **High Risk Medications Prescriber Summary** report. From this Summary Report, additional information can be access in the **High Risk Medications Detail Report All Prescribers** and **High Risk Medication Detailed Claim by Prescriber** reports. Click on the back button to return to the previous report.

Use Back  
button to  
navigate to  
previous view



High Risk Medication Prescriber Summary

Drug Name : omeprazole  
BRAND/generic : PRILOSEC  
Reporting Time Period:02/01/2017-01/31/2018  
High Risk Medications per Beers Criteria for Potentially Inappropriate Medication Use in Older Adults ≥ 65 years age

Prescriber Name:

Prescriber Name	Prescriber NPI	BRAND/generic	Strength Description	Claim count	Rank	% Change from Previous 12 Months
Therapy, Inc.	1010101010	PRILOSEC	10 mg	2	1	100.0%

## 6.4 Top 10 Therapeutic Categories: Rolling 12 Months

**Top 10 Therapeutic Categories** report provides a list of therapeutic categories and subcategories with corresponding claim count and cost. Click on the therapeutic category to view more detailed reports.

Click on category or sub category to view detail reports

Top 10 Therapeutic Categories - Rolling 12 Months

Filters

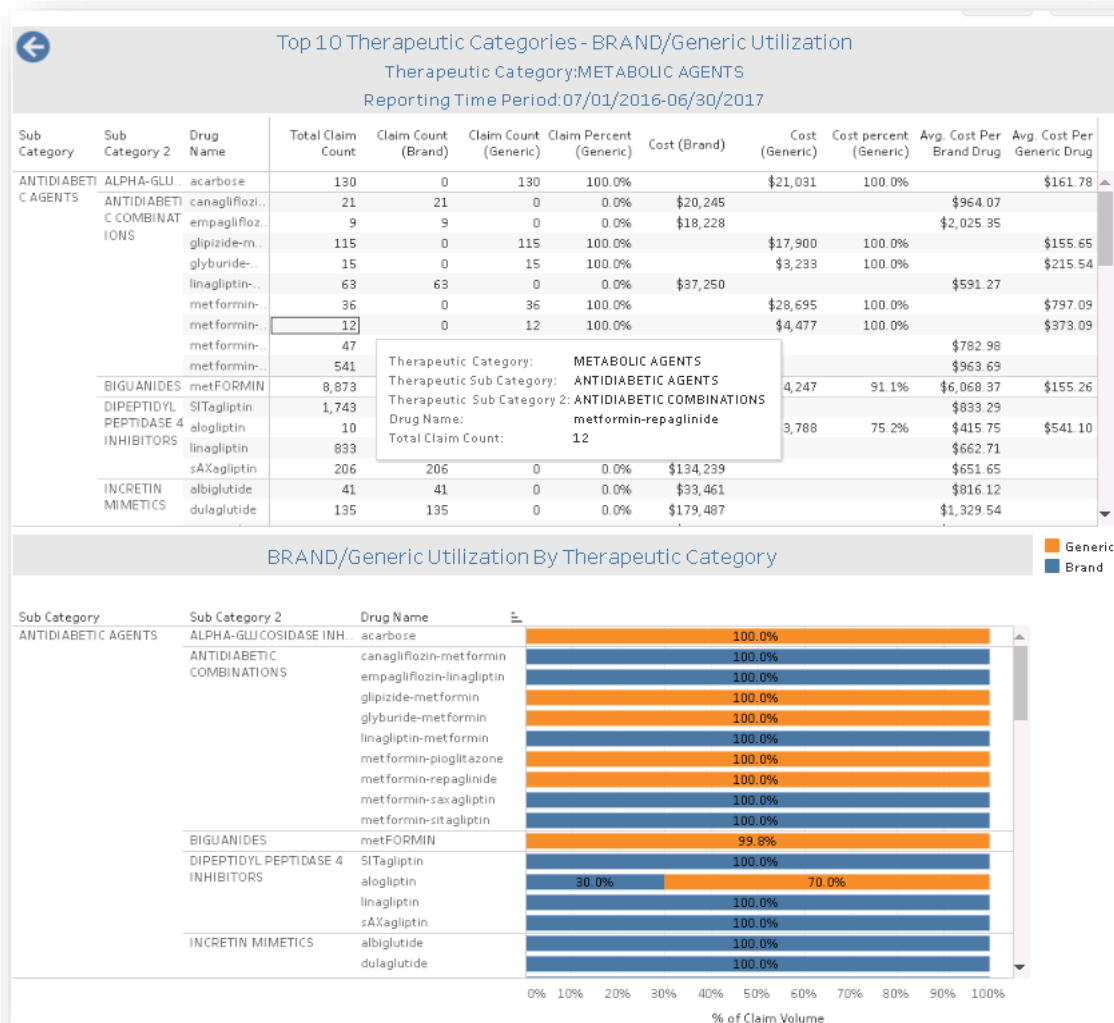
Top 10 Therapeutic Categories - Rolling 12 Months  
Reporting Time Period: 07/01/2016-06/30/2017

Therapeutic Category: (All)

Category	Category Rank	Sub Category	Sub Category Rank	Sub Category 2	Claim Count	Cost
METABOLIC AGENTS	Total				72,634	\$27,442,292
48 items selected - SUM of Measure Values: 55,029,851						
<a href="#">METABOLIC AGENTS</a> <a href="#">BRAND/Generic Utilization Details</a> <a href="#">Therapeutic Category Details</a> <a href="#">Top 10 Therapeutic Categories Claims and Cost by Age</a>						
		ANTIDIABETIC AGENTS	2			
				ANTIHYPERTENSIVE COMBINATIONS	234	\$185,337
				BILE ACID SEQUESTRANTS	441	\$253,273
				CHOLESTEROL ABSORPTION INHIBITORS	1,367	\$1,075,567
				FIBRIC ACID DERIVATIVES	2,177	\$482,517
				HMG-COA REDUCTASE INHIBITORS (STATINS)	31,821	\$11,375,254
				MISCELLANEOUS ANTIHYPERLIPIDEMIC AGENTS	232	\$84,897
				PCSK9 INHIBITORS	41	\$95,390
				ALPHA-GLUCOSIDASE INHIBITORS	130	\$21,031
				ANTIDIABETIC COMBINATIONS	859	\$688,184
				BIGUANIDES	8,873	\$1,507,751
				DIPYRIDYL PEPTIDASE 4 INHIBITORS	2,792	\$2,143,745
				INCRETIN MIMETICS	496	\$674,096
				INSULIN	8,366	\$6,004,129
				MEGLITINIDES	215	\$64,962
				SGLT-2 INHIBITORS	347	\$347,894
				SULFONYLUREAS	4,483	\$262,760
				THIAZOLIDINEDIONES	657	\$399,683
		BONE RESORPTION INHIBITORS	3			
				BIPHOSPHONATES	3,109	\$543,110
				MISCELLANEOUS BONE RESORPTION INHIBITORS	135	\$187,948
		LYSOSOMAL ENZYMES	4			
					13	\$476,414
		ANTIGOUT AGENTS	5			
					3,063	\$293,944
		ANTIHYPERTENSIVE AGENTS	6			
					2,744	\$260,017
		GLUCOSE ELEVATING AGENTS	7			
					39	\$14,389
CENTRAL NERVOUS	Total				106,915	\$21,712,195

## 6.4.1 Top Ten Therapeutic Categories: BRAND/Generic Utilization

**Top Ten Therapeutic Categories: BRAND/Generic Utilization** report presents the claim counts and cost information for each of the top 10 therapeutic categories, divided by brand and generic formulations. The proportion of all drugs prescribed within a therapeutic category by brand and generic formulation is presented in the chart. This report contains sub-reports that provide detail at the drug Category, Sub Category, Sub Category 2, and Drug Name level. To access this report, select the category or subcategory from **Top Ten Categories Rolling 12 Month report**. Additional drill-throughs are available until the Drug Name level. At that point, click on Patient Summary or Timeline to view patient-level information.



## 6.4.2 Top Ten Therapeutic Category: [Drug Name] Details

**Therapeutic Category Details** report presents detailed claim information for the selected therapeutic category including cost, claim count, and copay information. To access this report, select the category or subcategory from **Top Ten Categories Rolling 12 Month** report.

**Return to previous page**

**Click on Sub Category to view detail report**

Therapeutic Categories Details

Therapeutic Category - METABOLIC AGENTS - Details  
Reporting Time Period: 07/01/2016-06/30/2017

Therapeutic Sub Category: (All)

Sub Category	Sub Category Rank	Sub Category 2	Category 2 Rank	Drug Name	BRAND/generic	Claim Count	Cost	Average Cost Per Claim	Copay	Avg. Copay
ANTIHYPERTENSIVE AGENTS	1	ANTIHYPERTENSIVE COMBINATIONS	1	amlodipine-a...	amlodipine besylat...	40	\$31,735	\$792.80	\$2,035	\$42.39
				ezetimibe-si...	ezetimibe-simvast...	9	\$8,051	\$894.59	\$311	\$34.54
				VYTORIN		177	\$143,951	\$811.02	\$10,417	\$58.83
		BILE ACID SEQUESTRANTS	2	cholestyrami...	cholestyramine	71	\$12,697	\$178.84	\$1,065	\$15.01
				cholestyramine lig...		8	\$1,378	\$172.20	\$138	\$17.22
				cholestyramine lig...		7	\$699	\$99.88	\$140	\$19.94
				cholestyramine pa...		131	\$27,860	\$212.67	\$2,794	\$21.33
				corvalta		5	\$816	\$163.20	\$131	\$26.17
						35	\$12,978	\$370.80	\$911	\$26.02
						113	\$181,933	\$1,610.03	\$13,392	\$117.98
						71	\$14,911	\$210.02	\$2,617	\$36.86
						273	\$189,634	\$694.63	\$11,376	\$41.67
						1,094	\$885,933	\$809.81	\$77,735	\$71.86
FIBRIC ACID DERIVATIVES	4	CHOLESTEROL ABSORPTION INHIBITORS	4	fenofibrate	ANTARA	3	\$630	\$209.95	\$0	\$0.00
				fenofibrate		1,242	\$261,327	\$210.41	\$17,573	\$14.15
				fenofibrate micron...		249	\$33,499	\$134.53	\$4,089	\$16.44
				TRICOR		4	\$477	\$119.24	\$44	\$11.00
				fenofibric acid	fenofibric acid	203	\$84,559	\$416.54	\$7,770	\$38.28
HMG-COA REDUCTASE INHIBITORS (STATINS)	5		5	gemfibrozil	gemfibrozil	476	\$102,826	\$214.34	\$2,078	\$4.37
				atorvastatin	atorvastatin calciu...	15,605	\$5,874,089	\$376.42	\$103,359	\$6.62
				LIPITOR		22	\$19,154	\$870.74	\$1,086	\$49.34
				fluvastatin	fluvastatin sodium	17	\$8,011	\$471.23	\$692	\$40.68
				lovastatin	lovastatin	1,106	\$190,864	\$172.57	\$4,491	\$4.86
				pitavastatin	LIVALO	58	\$34,159	\$588.94	\$5,378	\$92.73
				rosuvastatin	DDVIA/NUO	11	\$8,192	\$744.64	\$701	\$20.94

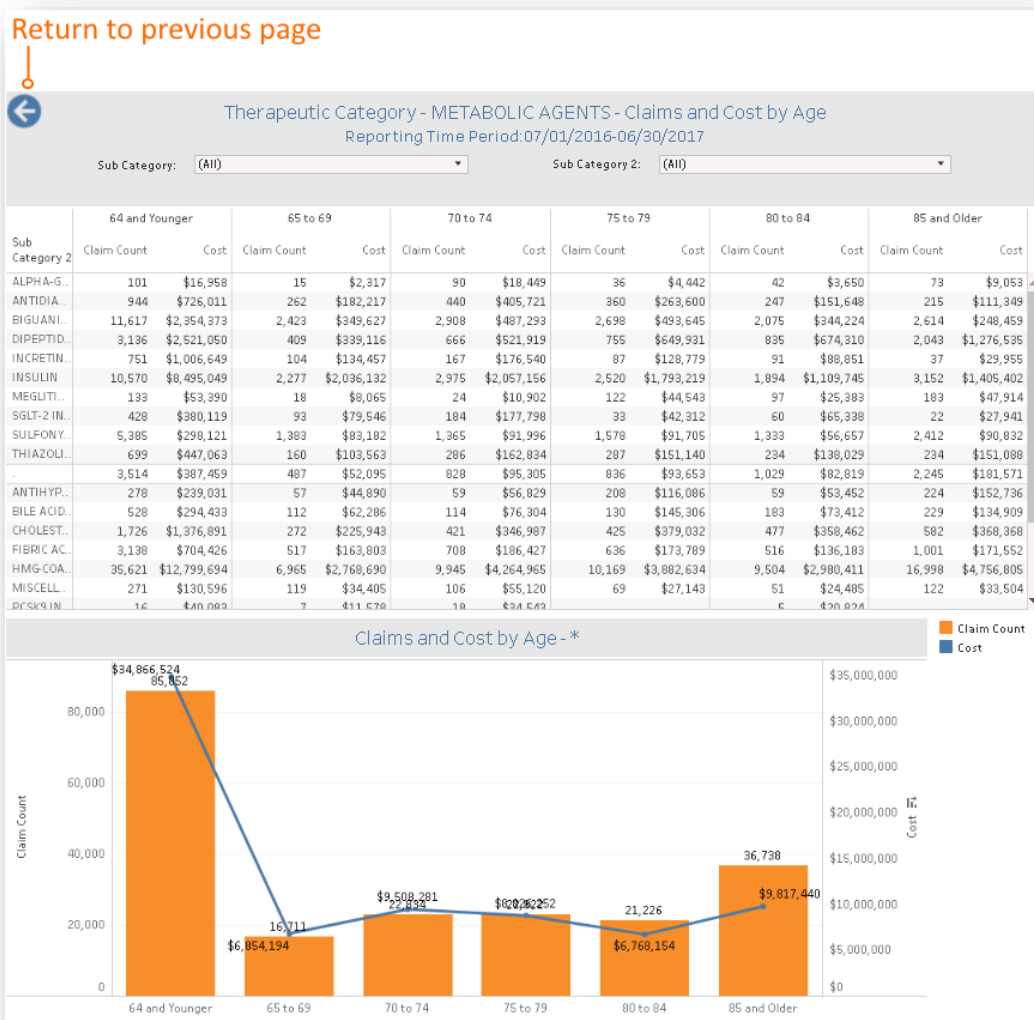
40 items selected - SUM of Measure Values: 278,139

BILE ACID SEQUESTRANTS

Top 10 Therapeutic Categories - Drug Details

### 6.4.3 Top Ten Therapeutic Categories: Claims and Cost by Age

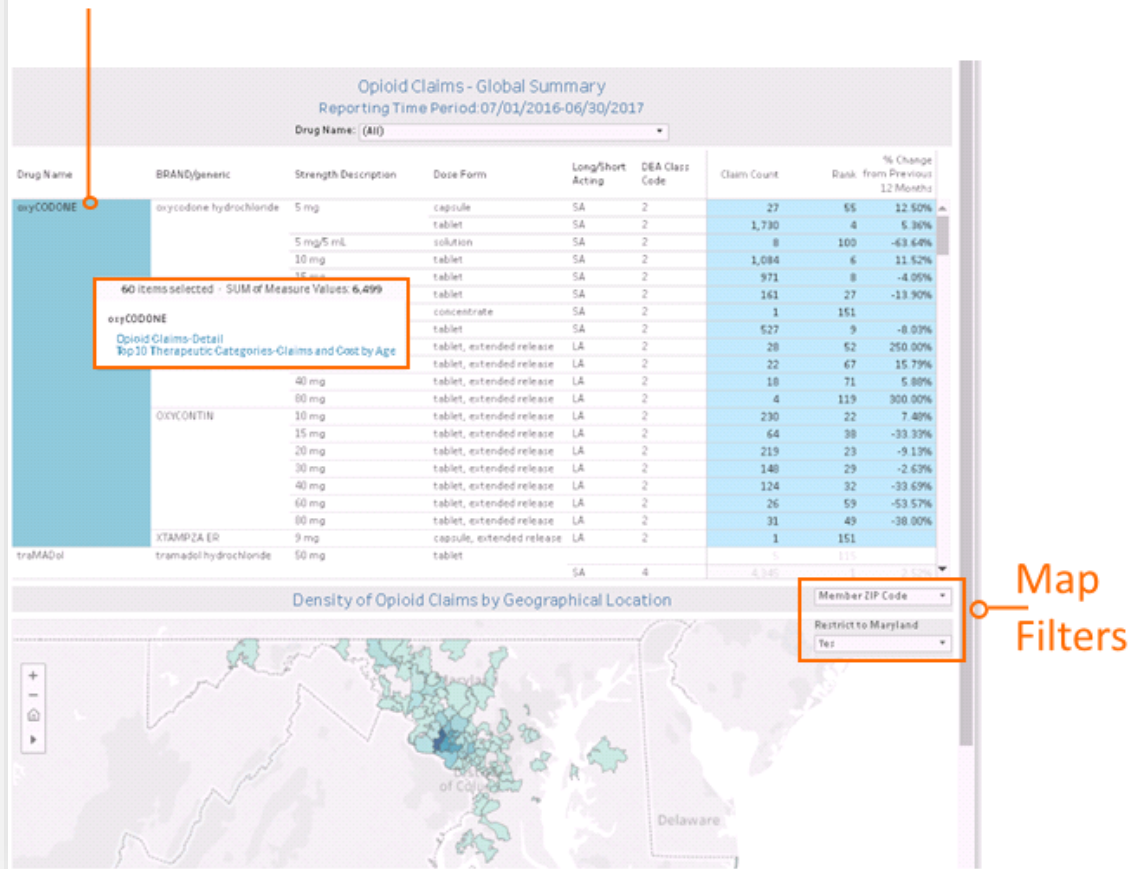
**Top Ten Therapeutic Categories: Claims and Cost Age** report presents the claim counts and cost for each therapeutic category, divided by patient age category. The claim count and cost of the drug by age category is shown in the chart. To access this report, select the category or subcategory from **Top Ten Categories Rolling 12 Month** report.



## 6.5 Opioid Claims-Global Summary

**Opioid Claims-Global Summary** provides the utilization of opioids by claim count. A map of the density/frequency of opioid claims by geographical location is displayed by member, prescriber and pharmacy zip codes. The density map can be restricted to the State of Maryland or nationally. Click on drug name or BRAND/Generic formulation to view detailed reports.

Click on Drug or BRAND/generic name to view detail reports



## 6.5.1 Opioid Claims Detail

**Opioid Claims Detail** report provides detailed claim information for the selected drug and allows for filtering prescriber, pharmacy and member name. To access this report, click on the drug name or BRAND/generic from **Opioid Claims Global** report.

**Opioid Claims - Detail**

Drug Name: oxycodone  
 BRAND/generic: (All)  
 Strength Description: All  
 Reporting Time Period: 07/01/2016-06/30/2017

Prescriber Name: (All) Pharmacy Name: (All) Member Name: (All)

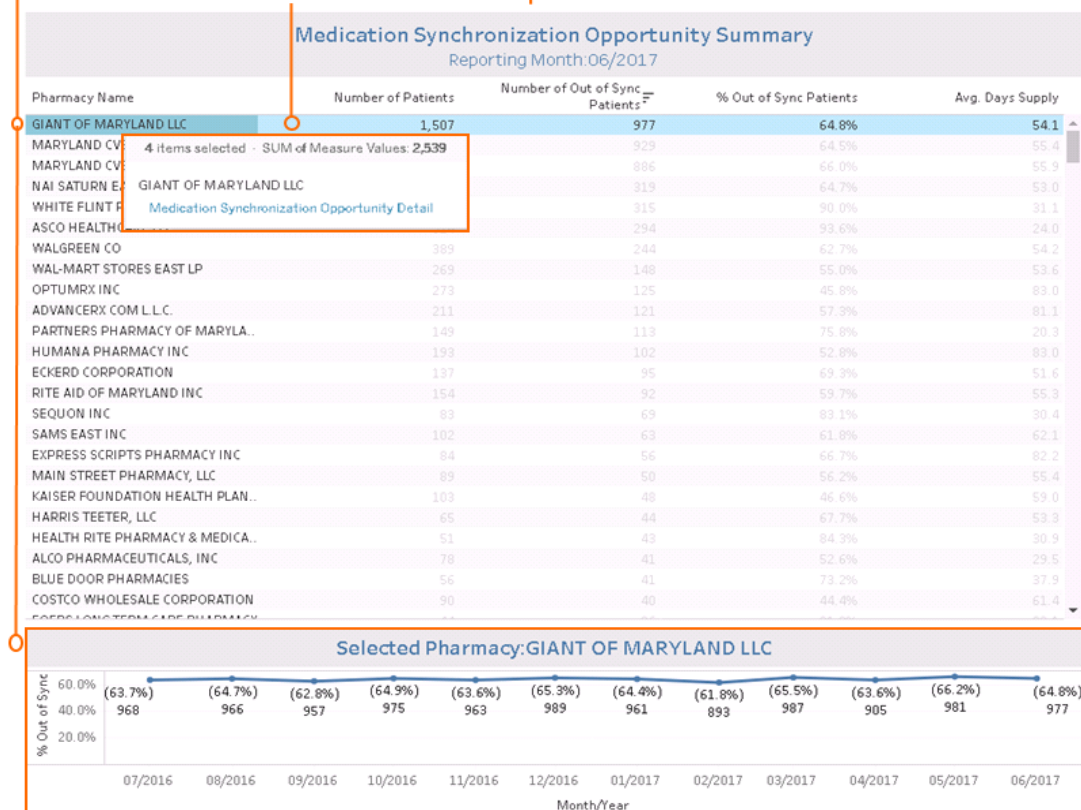
Prescriber Name	Prescriber NPI	Pharmacy Name	Pharmacy ZIP Code	Member Name	Member ID	Date Filled	Quantity	Days Supply	Copay	Cost
		THE VILLAGE PHARMACY ...	208863709			10/20/2016	60	30	\$84.54	\$325.18
		MARYLAND CVS PHARMACY, L.L.C.	028956146			08/13/2016	60	30	\$7.40	\$248.04
		MARYLAND CVS PHARMACY, L.L.C.	028956146			10/02/2016	60	30	\$7.40	\$248.04
		MARYLAND CVS PHARMACY, L.L.C.	028956146			10/29/2016	60	30	\$7.40	\$248.04
		MARYLAND CVS PHARMACY, L.L.C.	028956146			12/28/2016	60	30	\$0.00	\$240.64
		GIANT OF MARYLAND LLC	208742904			10/21/2016	30	30	\$22.20	\$142.52
		THE VILLAGE PHARMACY LLC	208863709			09/22/2016	60	30	\$84.54	\$325.18
		THE VILLAGE PHARMACY LLC	208863709			12/14/2016	60	30	\$84.54	\$325.18
		SHOPPERS FOOD WAREHOUSE CORP	553443643			01/12/2017	30	30	\$8.25	\$128.57
		SHOPPERS FOOD WAREHOUSE CORP	553443643			03/09/2017	30	30	\$8.25	\$128.57
		SHOPPERS FOOD WAREHOUSE CORP	553443643			05/04/2017	60	30	\$8.25	\$248.89
		SHOPPERS FOOD WAREHOUSE CORP	553443643			06/29/2017	60	30	\$8.25	\$248.89
		MARYLAND CVS PHARMACY, L.L.C.	028956146			11/30/2016	60	30	\$0.00	\$240.64
		AMBULATORY CARE PHARMACY, L.L.C.	208506352			12/13/2016	30	15	\$14.12	\$134.44
		GIANT FOOD STORES, LLC	170131607			07/14/2016	60	30	\$35.89	\$276.53
		GIANT FOOD STORES, LLC	170131607			08/11/2016	60	30	\$35.89	\$276.53
		GIANT FOOD STORES, LLC	170131607			09/08/2016	60	30	\$35.89	\$276.53
		GIANT FOOD STORES, LLC	170131607			10/06/2016	60	30	\$35.89	\$276.53
		GIANT FOOD STORES, LLC	170131607			11/04/2016	60	30	\$35.89	\$276.53
		GIANT FOOD STORES, LLC	170131607			05/19/2017	60	30	\$83.25	\$323.89
		GIANT FOOD STORES, LLC	170131607			06/15/2017	60	30	\$83.25	\$323.89
		THE VILLAGE PHARMACY LLC	208863709			07/28/2016	60	30	\$74.46	\$315.10
		THE VILLAGE PHARMACY LLC	208863709			08/25/2016	60	30	\$84.54	\$325.18

## 6.6 Medication Synchronization Opportunity Summary

**Medication Synchronization Opportunity Summary** ranks the pharmacies by number and proportion of patients who did not receive medication reconciliation. Click on **Medication Synchronization Opportunity Detail** to access patient-level details.

Click on the Pharmacy name to populate the graph below

Click to view detail reports





## 6.6.1 Medication Synchronization Opportunity Detail

**Medication Synchronization Opportunity Detail** report lists patients who have not received medication synchronization, or have their prescriptions filled on multiple dates each month or every three months using multiple pharmacies. To access this report, click on the Pharmacy Name from the **Medication Synchronization Opportunity Summary**. Click on **Patient Summary** and **Patient Timeline** to access patient-level detail.

Click to return to previous page

Patient Timeline

Patient Summary

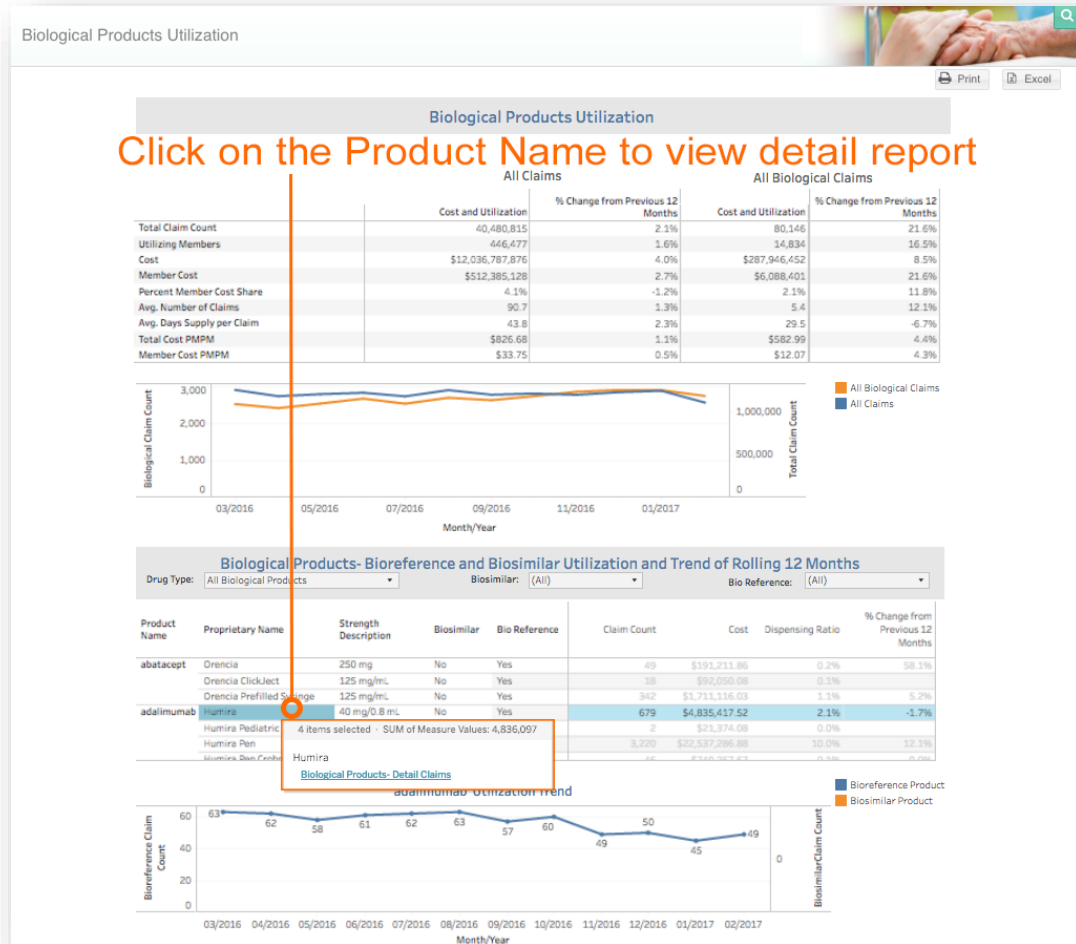
Medication Synchronization Opportunity Detail

GIANT OF MARYLAND LLC  
Reporting Month: 06/2017  
Member Name: (All)

Member ID	Member Name	Member ZIP Code	Number of Pharmacies Used	Number of Drugs	Number of Prescribers	Avg. Days Supply	Avg. Difference Between Fill Dates
1			1	2	2	90.0	5.0
1			1	2	1	90.0	1.5
1			1	5	2	66.8	14.8
1			1	7	1	31.7	12.0
1			1	2	2	90.0	10.0
1			1	5	3	15.1	6.2
2			2	2	2	46.5	8.0
3			3	4	1	75.0	1.0
1			1	7	2	38.3	0.1
2			2	7	2	42.9	5.9
1			1	9	2	64.4	1.0
1			1	3	2	41.7	11.7
1			1	2	1	90.0	12.0
2			2	4	3	26.0	2.3
1			1	2	2	60.0	3.5
1			1	3	1	60.0	6.3
1			1	2	1	30.0	13.5
1			1	5	2	56.2	8.4
1			1	7	2	69.4	6.1
1			1	10	1	50.9	10.0
1			1	3	1	45.0	0.3
1			1	2	2	60.0	2.5
1			1	2	2	62.5	1.2

## 6.7 Biological Products Utilization

**Biological Products Utilization** provides cost and utilization information for all biological products. In the chart, utilization is compared for all claims (blue) and biological claims (orange). Click on Proprietary Name or Strength Description to access patient-level detailed reports.



## 6.7.1 Biological Products Detail Claims All

**Biological Products Detail Claims All** report lists all claims for the biological products selected from the **Biological Product Utilization** report. The report can be sorted by cost, prescriber name, member name, and pharmacy name.

**Return to previous page**

**Filters**

**Biological Products - Detail Claims:**  
 Product Name : certolizumab  
 Proprietary Name:Cimzia  
 Reporting Time Period:07/01/2016-06/30/2017

Prescriber Name: (All) Member Name: (All) Pharmacy Name: (All)

Proprietary Name	Strength Description	Prescriber Name	Prescriber NPI	Member Name	Member ID	Pharmacy Name	Date Filled	Quantity	Days Supply	Copay	Cost
Cimzia	200 mg/mL					ACARIAHEALTH PHARMACY INC		1	28	\$1,589.29	\$5,268
								1	28	\$1,320.15	\$4,999
								1	28	\$182.80	\$3,862
								1	28	\$182.80	\$3,862
								1	28	\$182.80	\$3,862
								1	28	\$182.80	\$3,862
								1	28	\$175.13	\$3,854
								1	28	\$175.13	\$3,854
								1	28	\$175.13	\$3,854
								1	28	\$175.13	\$3,854
								1	28	\$175.13	\$3,854
								1	28	\$175.13	\$3,854
						ORCHARD PHARMACEUTICAL		3	84	\$60.00	\$11,097
								3	84	\$60.00	\$11,097

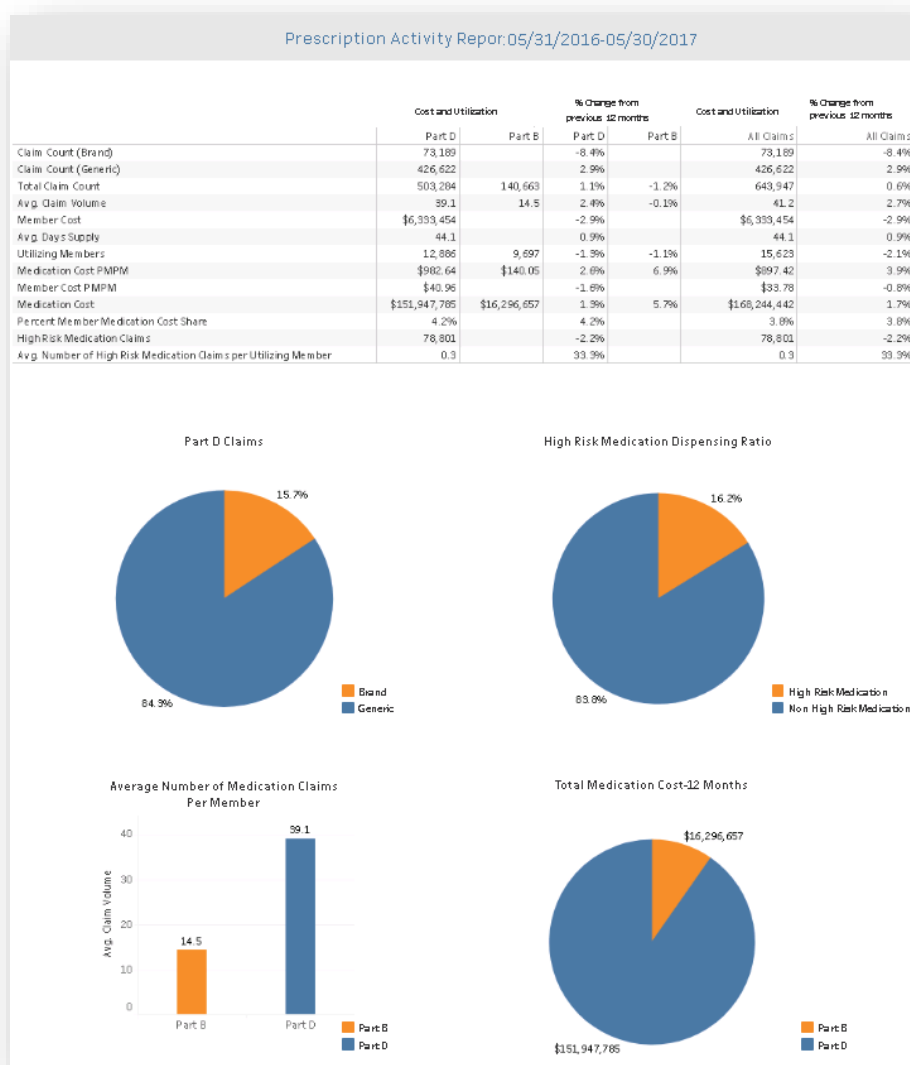
**Patient Timeline**

**Patient Summary**

**Create Roaster** **View Patient Summary**

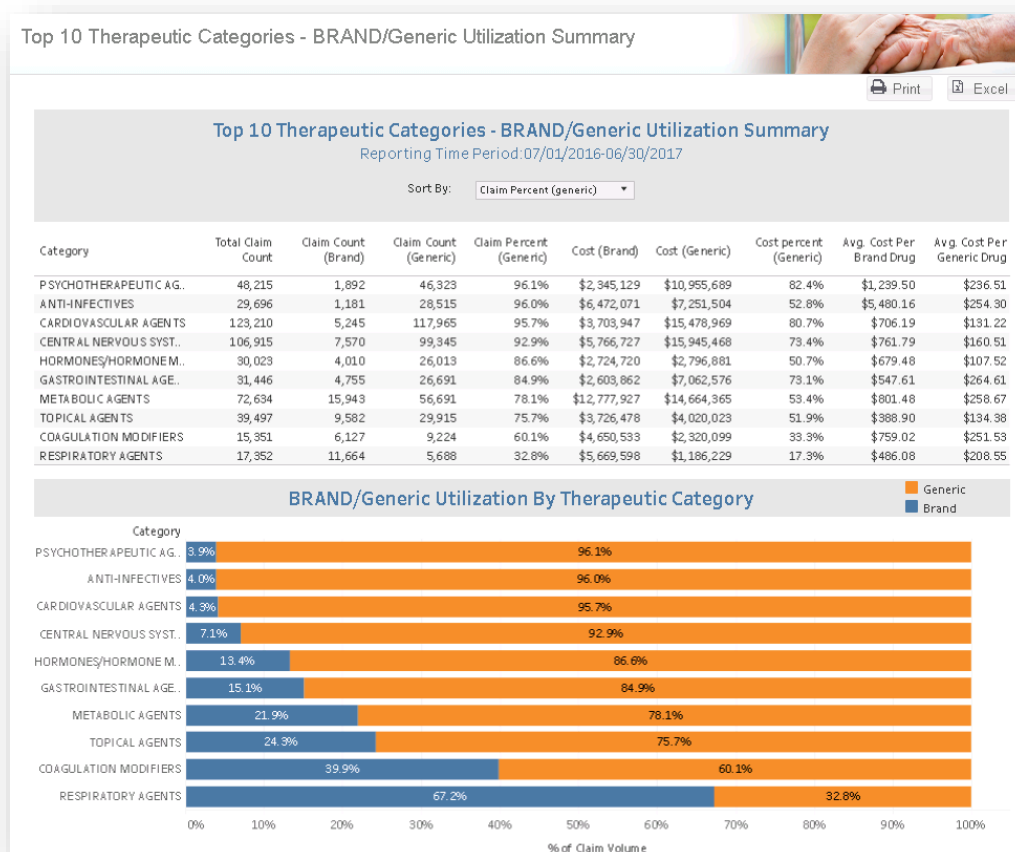
## 6.8 Prescription Activity Report

**Prescription Activity Report** provides a summary of cost and utilization for all claims categorized by Part D and Part B. Variables of interest include the count of brand and generic drugs (for Part D), utilization measures such as average volume and day supply, and cost measures such as average PMPM for ingredient cost and patient copayment. The pie charts show the distribution of claims and medication cost by Part B and Part D drug, as well as number of Part D claims by brand and generic formulation, and proportion of high-risk and non-high-risk drugs dispensed.



## 6.9 Top Ten Therapeutic Categories - BRAND/Generic Utilization Summary

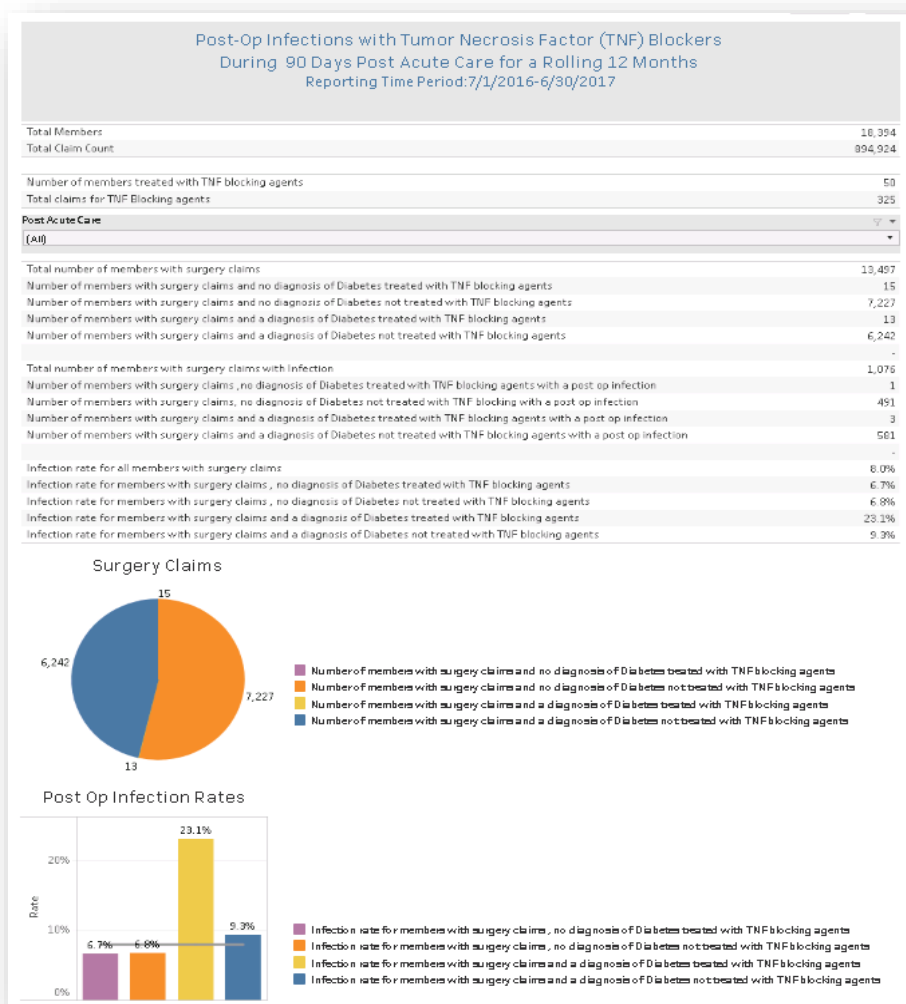
**Top Ten Therapeutic Categories – BRAND/ Generic Utilization Summary** report presents the claim counts and cost information for each of the top 10 therapeutic categories, divided by brand and generic formulations. The proportion of all drugs prescribed within a therapeutic category by brand and generic formulation is presented in the chart.



## 6.10 Post-Op Infections and Surgery Rates with Tumor Necrosis Factor (TNF) Blockers

**Post-Op Infections with TNF Blockers** is a summary report of the post-operative infection rate and surgery claims during the 90-day post-discharge episode period. The report compares patients treated (and not treated) with TNF blockers; patients treated with TNF blocker with also a diagnosis (or no diagnosis) of diabetes; and patients with a diagnosis of diabetes who have not been treated with TNF blockers. For the population groups the following information is reported:

- Total number of Members with surgery claims
- Total number of Members with surgery claims with infection
- Infection rates for all Members with surgery claims

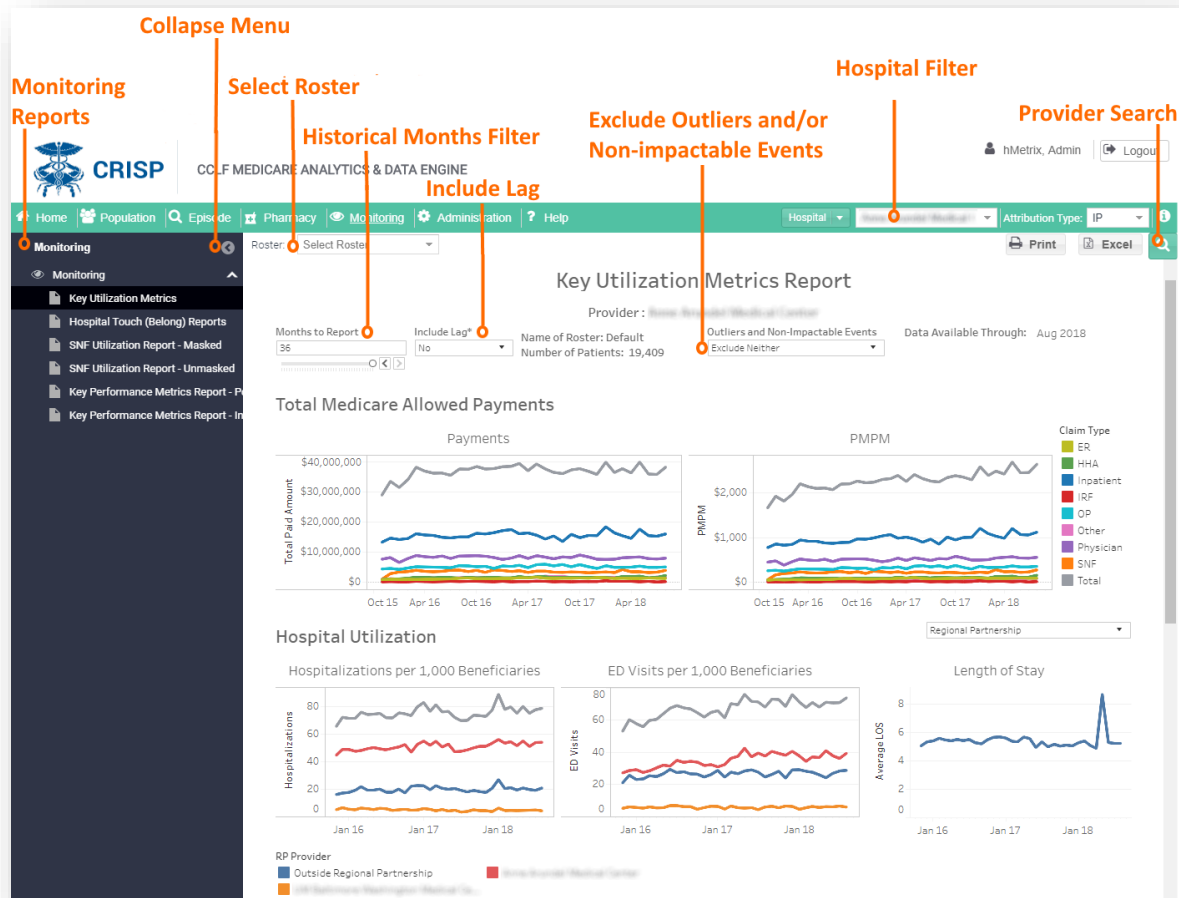


## 7 MONITORING REPORTS

The Monitoring Report module contains two reports to enable hospital users to track overall utilization and spending trends across patient rosters and to more accurately identify patients under the care of their hospital.

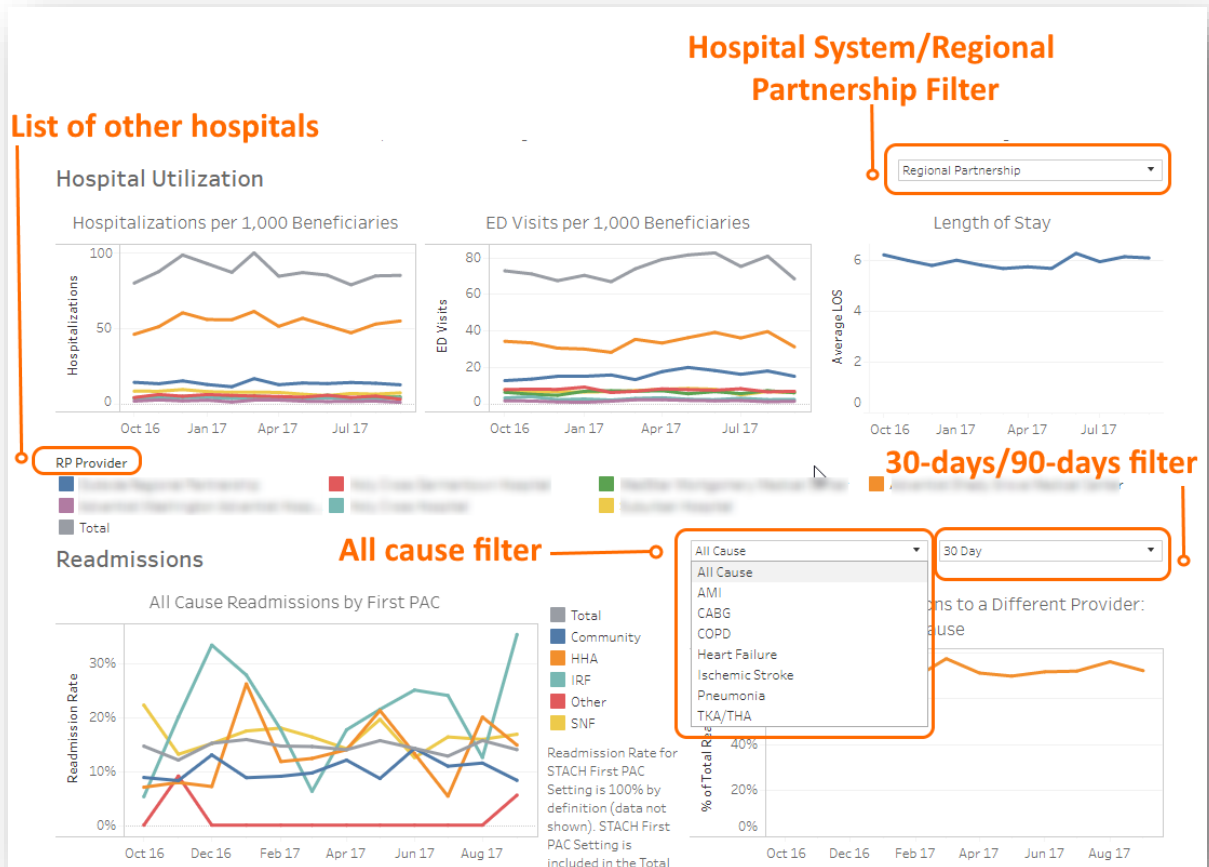
### 7.1 Key Utilization Metrics Report

**Key Utilization Metrics Report** presents the historical trends in key utilization metrics including Medicare allowed payments (total and per-member-per-month), hospital utilization (admissions and ER visits per 1,000 beneficiaries and LOS) hospital readmissions, and care management. This report can be customized by selecting the roster of patients to analyze, the number of historical months to report (up to 36 months) and whether the report includes the last three months of claims where incomplete data may be presented (due to claim processing lag).



## Monitoring Reports

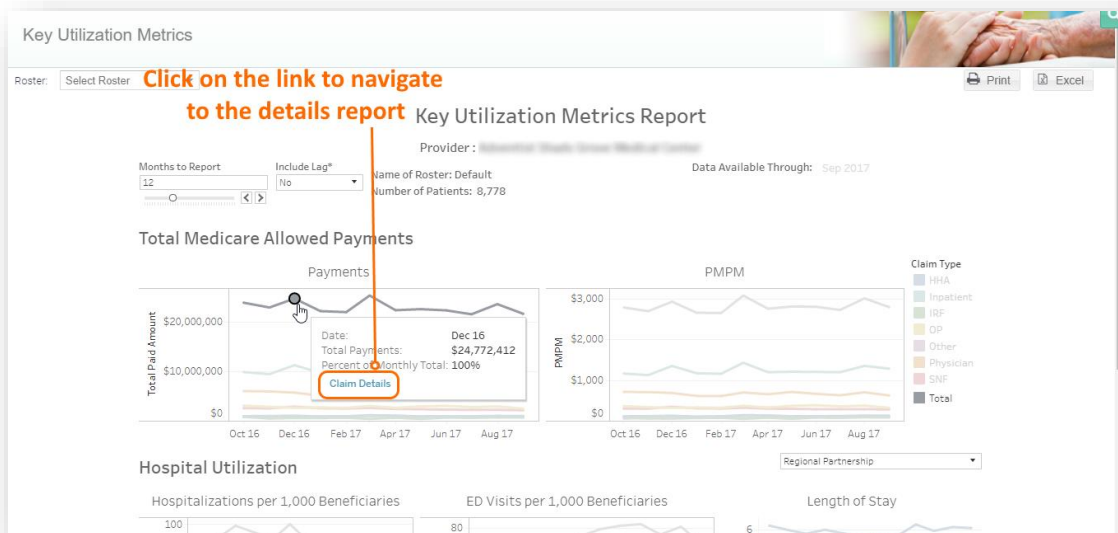
For the attributed patients in a selected roster, the readmissions section shows the hospitalization rates at the other hospitals within the Regional Partnership or the Hospital System. The readmission section also shows all-cause readmissions, or according to the seven conditions included in the readmissions reduction incentive program (RRIP) for either 30-days or 90-days.



Patient-level details are available within the payment, utilization, or readmission panels:

- Click a data point on any line of the Payments or PMPM graphs to display **Claim Details** for the care setting of interest.
- Click a data point on any line of the Hospitalizations per 1,000 Beneficiaries or ED Visits per 1,000 Beneficiaries graphs to display **Admission Details** for the hospital of interest.
- Click a data point on any line of the Readmissions by First PAC graph to display **Admissions with Readmissions** for the first PAC setting of interest.





Within the Medication Synchronization Opportunity graph, clicking on a data point and selecting **Medication Sync Details** will direct the user to the **Medication Synchronization Opportunity Summary**, also available through the Pharmacy module.

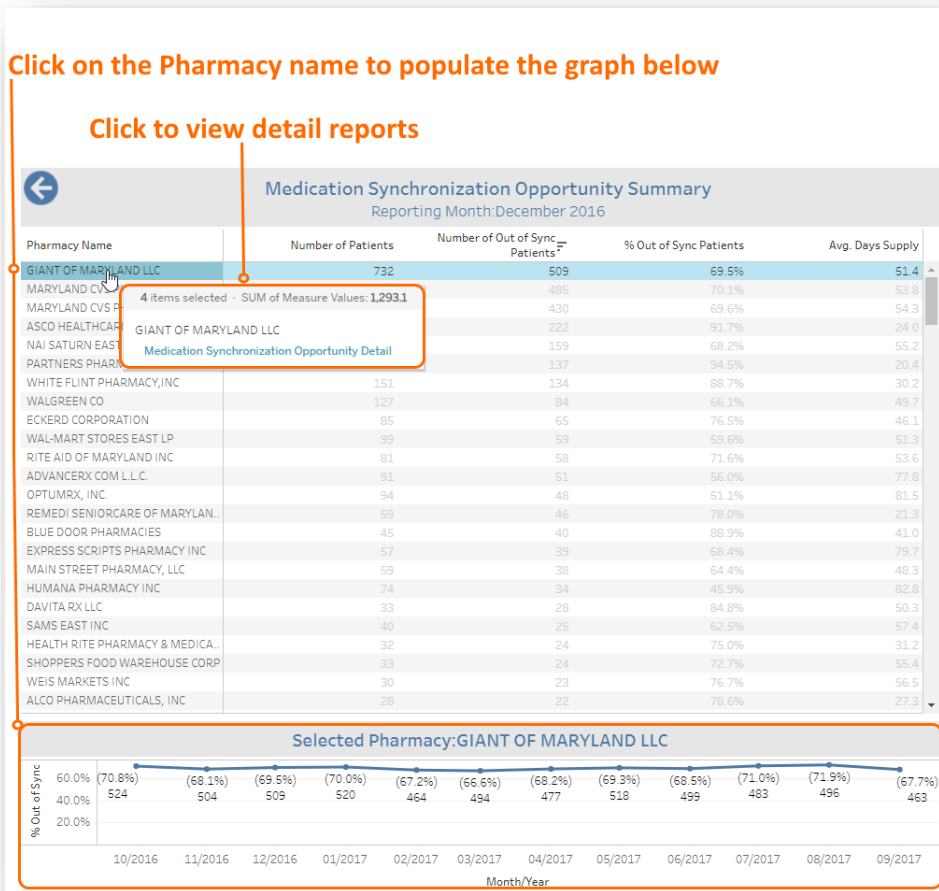
[illegible]

## 7.1.2 Admissions with Readmission

**Admission with Readmission** provides claim-level details for acute care hospitalizations that preceded readmissions within 30 or 90 days (as selected in the base report). This report shows every admission, including index acute care hospitals, APR DRG, claim from and through dates, LOS, primary diagnosis, and total payments for the selected patient roster. Report can be downloaded to Excel or printed to PDF.

## 7.1.3 Medication Synchronization Details

**Medication Synchronization Details**, mirrors the full report contained in the Pharmacy Module, the pharmacies by number and proportion of patients who did not receive medication reconciliation. Click on **Medication Synchronization Opportunity Detail** to access patient-level details.



## 7.1.3.1 Medication Synchronization Opportunity Detail

**Medication Synchronization Opportunity Detail** report lists patients who have not received medication synchronization, or have their prescriptions filled on multiple dates each month or every three months using multiple pharmacies. To access this report, click on the Pharmacy Name from the **Medication Synchronization Opportunity Summary**. Click on **Patient Summary** and **Patient Timeline** to access patient-level detail.

**Click to return to previous page**

**Patient Timeline**

**Patient Summary**

Key Utilization Metrics

Print Excel Create Roster View Patient Summary

### Medication Synchronization Opportunity Detail

GIANT OF MARYLAND LLC  
Reporting Month: 06/2017  
Member Name: (All)

Member ID	Member Name	Member ZIP Code	Number of Pharmacies Used	Number of Drugs	Number of Prescribers	Avg. Days Supply	Avg Difference Between Fill Dates
1111111111	1111111111	11111	1	2	2	90.0	5.0
1111111111	1111111111	11111	1	2	1	90.0	1.5
1111111111	1111111111	11111	1	5	2	66.8	14.8
1111111111	1111111111	11111	1	7	1	31.7	12.0
1111111111	1111111111	11111	1	2	2	90.0	10.0
1111111111	1111111111	11111	1	5	3	15.1	6.2
1111111111	1111111111	11111	2	2	2	46.5	8.0
1111111111	1111111111	11111	3	4	1	75.0	1.0
1111111111	1111111111	11111	1	7	2	38.3	0.1
1111111111	1111111111	11111	2	7	2	42.9	5.9
1111111111	1111111111	11111	1	9	2	64.4	1.0
1111111111	1111111111	11111	1	3	2	41.7	11.7
1111111111	1111111111	11111	1	2	1	90.0	12.0
1111111111	1111111111	11111	2	4	3	26.0	2.3
1111111111	1111111111	11111	1	2	2	60.0	3.5
1111111111	1111111111	11111	1	3	1	60.0	6.3
1111111111	1111111111	11111	1	2	1	30.0	13.5
1111111111	1111111111	11111	1	5	2	56.2	8.4
1111111111	1111111111	11111	1	7	2	69.4	6.1
1111111111	1111111111	11111	1	10	1	50.9	10.0
1111111111	1111111111	11111	1	3	1	45.0	0.3
1111111111	1111111111	11111	1	2	2	60.0	2.5
1111111111	1111111111	11111	1	2	2	60.0	1.2

## 7.2 Key Performance Metrics Report – Population Health

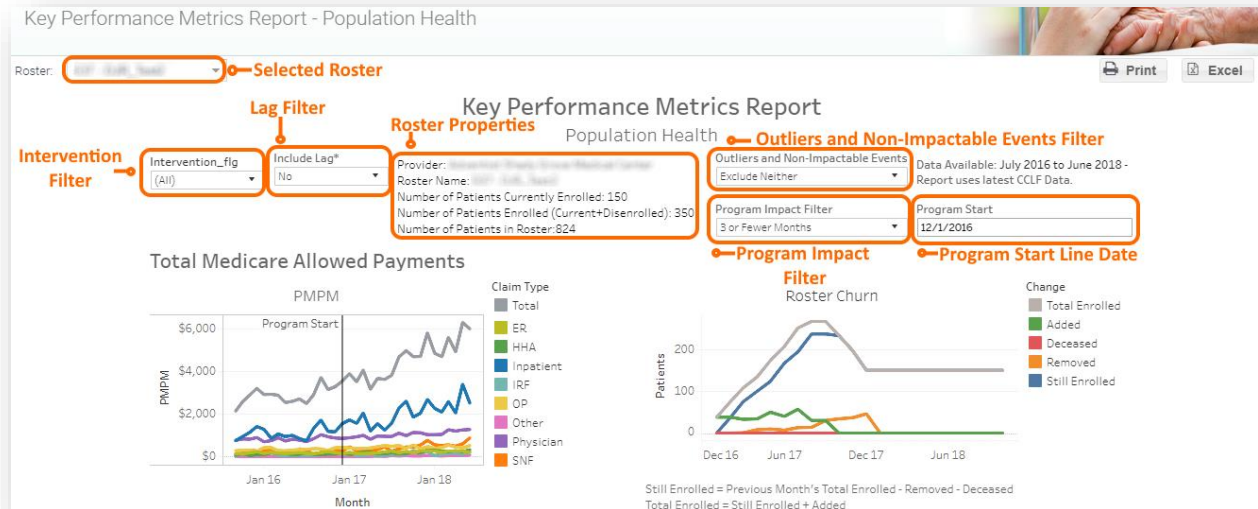
**ADVISORY:** The **Key Performance Metrics Report – Population Health** can only be generated for a roster that has the user editable field 'Date of Consent' populated for patients. Patients without a date populated are assumed to not yet be receiving the program intervention. The 'Date of Consent' field is used as a proxy for the start of a patient receiving the intervention. 'Disenrollment Date' is used as a proxy for the end of a patient receiving the intervention.

**Key Performance Metrics Report – Population Health** (KPMR-PH) shows trends for a population that includes both patients who are enrolled (assumed to be actively receiving a program intervention) and patients who are eligible but not yet receiving (enrolled in) the intervention. While the population is presented overall, the tool tip within each chart shows the utilization for each sub-population separately.

CHART NAME	DESCRIPTION	DRILL DOWN CAPABILITY
PMPM	Average per member per month payments by Claim Type	Drill down to <b>Claim Details</b>
Roster Churn	The influx and outflux of patients receiving intervention in the roster over time	No Drill Down reporting
Hospitalizations per 1,000 Beneficiaries	Admissions to Short-term Acute Care Hospitals either within the Hospital System or Regional Partnership, according to chart filter selection	Drill down to <b>Claim Details</b>
Length of Stay	Per month average length of stay at the index hospital	No Drill Down reporting
ED visits per 1,000 Beneficiaries	ED admissions to Short-term Acute Care Hospitals either within the Hospital System or Regional Partnership according to chart filter selection	Drill down to <b>Claim Details</b>
All Cause Readmissions by First PAC	Readmission rates by month for patients discharged from your STACH grouped by their first PAC setting	Drill down to <b>Admissions with Readmission</b>
Percent of Total Readmissions to a Different Provider: (All Cause)	The percent of patients readmitted to a hospital different from the index hospital. Readmissions can be identified using either an All Cause definition or filtered by conditions included in the Readmission Reduction Incentive Program (RRIP). A filter for 30 or 90-day readmissions can also be applied.	No Drill Down reporting
Physician Visits per 1,000 Beneficiaries	Counts of physician visits per 1,000 beneficiaries	No Drill Down reporting
Medication Synchronization Opportunity	The percent of patients per month who are eligible for medication synchronization. Asynchronization is identified as patients who fill prescriptions on multiple days in a month and/or at multiple pharmacies	Drill down to <b>Medication Synchronization Opportunity Summary</b>

## 7.2.1 Report Filters

Several Report filters are available to customize the report.



**Selected Roster:** KPMR-PH will not load without selecting a roster. This roster should include all patients that fit enrollment criteria for an intervention, i.e. both those that are enrolled, as well as any that are eligible to be enrolled in the future.

**Intervention Filter:** Filters the report to limit the utilization data to patients either enrolled in the program or not enrolled in the program. The selection of “Intervention” will limit the data displayed to claims that occurred after patients’ dates of consent and before patients’ dates of disenrollment, if present. If a patient has a date of consent but not disenrollment date, all claims after the patient’s date of consent are displayed. The selection of “No Intervention” will only include the claims prior to the date of consent or after the disenrollment date.

**Lag Filter:** Include or exclude the most recent two calendar months’ claims, which are considered incomplete due to lags in claim payment and processing.

**Roster Properties:** Provides summary information regarding the selected roster.

1. Provider: Hospital Name
2. Roster Name: Label of the selected roster.
3. Number of Patients Currently Enrolled: The number of patients with dates of consent and no disenrollment date present within the selected roster.
4. Number of Patients Enrolled: The count of patients in the roster that have a date of consent with no exclusion for disenrollment.
5. Number of Patients in Roster: The total count of patients in the roster, including expired and disenrolled patients.

**Outliers and Non-Impactable Events Filter:** This filter allows exclusion of patients with claims outside the 95<sup>th</sup> percentile of claims (Outliers) and/or for claims for conditions that are not likely to be affected by care management (Non-Impactable).

**Program Impact Filter:** To limit the report to utilization trends directly attributed to the program intervention, utilization data for patients enrolled in the program for fewer than 3 months are excluded by default. This exclusion aims to address regression to the mean concerns and the typical ramp-up for impacting care through program interventions. Users may elect to show all available data or extend the exclusion to 6 months.

**Program Start Line Date:** This manually entered date will present in charts as a labeled vertical line to indicate the start of an intervention or program. It does not affect how utilization trends are calculated.

## 7.2.2 Claim Details

The **Claim Details** drill down is accessible through the Total Medicare Allowed Payments, Hospitalizations or ED Visits per 1,000 Beneficiaries, and All Cause Readmissions by First PAC charts. It shows individual claims at the patient level with columns indicating the Claim Type, Member ID, Last Name, First Name, Provider Name, Claim From Date, Claim Through Date, Length of Stay (LOS), APR DRG, Primary Diagnosis, and Total Payments. Additionally, there is a filter to exclude Outliers, Non-Impactable Events, or both. Mouse over any row for additional information via a tooltip.

When navigating the **Claim Details** drill down, use the blue arrow to return to KPMR-PH. Your browser's back button will not bring you the previously viewed report.

Key Performance Metrics - PH - Claim Details

Roster: 100% (All) Print Excel

[Return to previous report](#) **Claim Details**

Claim Type: (All) Outliers & Non-Impactable Events: Exclude Neither

Claim Type	Member ID	Last Name	First Name	Provider Name	Claim From Date	Claim Through Date	LOS	APR DRG	Primary Diagnosis	Total Payments
ER					07/21/2017	07/21/2017			E1140 : Type 2 diabetes mellitus..	\$759
					07/07/2017	07/08/2017			J45901 : Unspecified asthma wit..	\$883
					07/29/2017	07/29/2017			S93401A : Sprain of unspecified ..	\$294
					07/28/2017	07/28/2017			K5900 : Constipation, unspecified	\$684
					07/01/2017	07/02/2017				
					07/02/2017	07/02/2017				
					07/12/2017	07/12/2017				
					07/24/2017	07/24/2017				
					07/01/2017	07/01/2017				
					07/08/2017	07/08/2017				
					07/20/2017	07/20/2017				
					07/09/2017	07/11/2017				
					07/19/2017	07/19/2017				
					07/29/2017	07/30/2017				
					07/06/2017	07/06/2017				
					07/14/2017	07/14/2017				
					07/18/2017	07/18/2017			R0789 : Other chest pain	\$761
					07/29/2017	07/29/2017			R079 : Chest pain, unspecified	\$793
					07/11/2017	07/12/2017			E871 : Hypo-osmolality and hyp..	\$2,893
					07/13/2017	07/13/2017			J40 : Bronchitis, not specified as..	\$462
					07/16/2017	07/17/2017			K922 : Gastrointestinal hemorrh..	\$1,872
					07/10/2017	07/11/2017			E8770 : Fluid overload, unspecifi..	\$2,865
					07/26/2017	07/27/2017			J441 : Chronic obstructive pulm..	\$3,076
					07/14/2017	07/15/2017			G459 : Transient cerebral ische..	\$4,274
					07/20/2017	07/20/2017			R339 : Retention of urine, unspe..	\$296

**Tooltip:**

- Claim Type: ER
- First Name: [Redacted]
- Last Name: [Redacted]
- APR DRG: [Redacted]
- Claim From Date: 07/28/2017
- Claim Through Date: 07/28/2017
- Member ID: [Redacted]
- Provider Name: [Redacted]
- Primary Diagnosis: K5900 : Constipation, unspecified
- LOS: [Redacted]
- Total Payments: \$684



## 7.2.3 Admissions with Readmission

Having selected a point in the **All Cause Readmissions by First PAC** report, and mousing over that data point, a link labeled, **Admissions With Readmission**, will direct to a report with claims data regarding patients' readmissions to all settings with a filter to limit readmissions by care setting. The **Admissions with Readmission** detail report shows total payments per patient per readmission including the primary diagnosis and related APR DRG. Mousing over a specific row in this report will yield a tooltip with information regarding the claim.

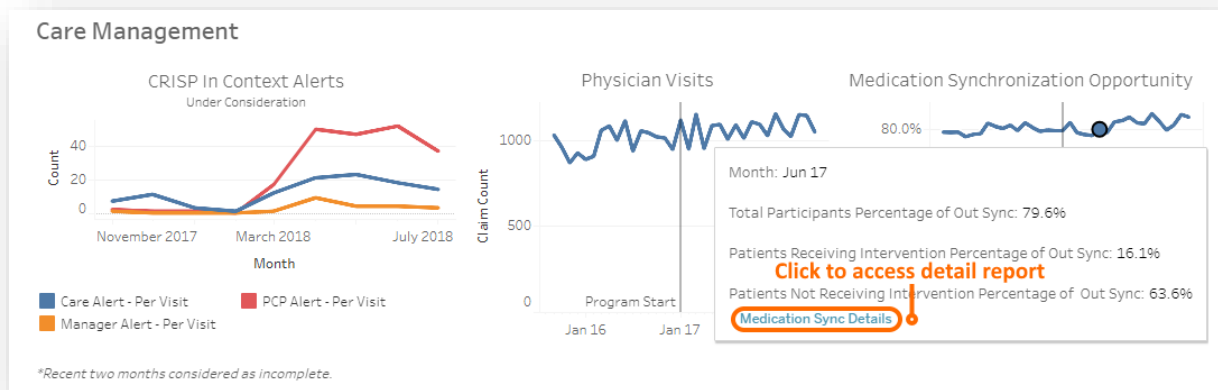
Member ID	Provider Name	APR DRG	Claim From	Claim Thru	LOS	Primary Diagnosis	Total Payments
1000000000	Non MD Provider	Dorsal & lumbar fusion proc...	10/1/2018	10/1/2018	8	C7951 : Secondary malignant neop...	\$35,980
1000000000	Non MD Provider	Kidney & urinary tract infecti...	10/1/2018	10/1/2018	3	N390 : Urinary tract infection, site...	\$3,764
1000000000	Non MD Provider	Acute leukemia	10/1/2018	10/1/2018	1	C9200 : Acute myeloblastic leuke...	\$922
1000000000	Non MD Provider	Digestive malignancy	10/1/2018	10/1/2018	2	C163 : Malignant neoplasm of pylo...	\$3,534
1000000000	Non MD Provider	Peptic ulcer & gastritis	10/1/2018	10/1/2018	4	K254 : Chronic or unspecified gast...	\$10,189
1000000000	Non MD Provider	Fractures & dislocations exce...	10/1/2018	10/1/2018	2	M8448XA : Pathological fracture, ..	\$4,106
1000000000	Non MD Provider	Septicemia & disseminated in...	10/1/2018	10/1/2018	3	A4151 : Sepsis due to Escherichia ..	\$4,491
1000000000	Non MD Provider	Cardiac arrhythmia & conduct...	10/1/2018	10/1/2018	3	I481 : Persistent atrial fibrillation	\$3,208
1000000000	Non MD Provider	Chronic obstructive pulmonar...	10/1/2018	10/1/2018	11	J440 : Chronic obstructive pulmon...	\$25,865
1000000000	Non MD Provider	Heart failure	10/1/2018	10/1/2018	12	I130 : Hyp hrt & chr kdny dis w hrt ..	\$22,147
1000000000	Non MD Provider	Heart failure	10/1/2018	10/1/2018	6	I130 : Hyp hrt & chr kdny dis w hrt ..	\$13,514
1000000000	Non MD Provider	Pulmonary edema & respirato...	10/1/2018	10/1/2018	5	J9601 : Acute respiratory failure w...	\$10,418
1000000000	Non MD Provider	Other & unspecified gastroint...	10/1/2018	10/1/2018	4	K922 : Gastrointestinal hemorrha...	\$6,398
1000000000	Non MD Provider	Malfunction, reaction & comp...	10/1/2018	10/1/2018	4	K9423 : Gastrostomy malfunction	\$18,781
1000000000	Non MD Provider	Diabetes	10/1/2018	10/1/2018	10	E119 : Type 2 diabetes mellitus wi...	\$30,954
1000000000	Non MD Provider	Sickle cell anemia crisis	10/1/2018	10/1/2018	6	D580 : Sickle cell anemia crisis	\$18,781
1000000000	Non MD Provider	Dorsal & lumbar fusion proc...	10/1/2018	10/1/2018	8	C7951 : Secondary malignant neop...	\$35,980
1000000000	Non MD Provider	Other pneumonia	10/1/2018	10/1/2018	3	J629 : Other pneumonia	\$3,764
1000000000	Non MD Provider	Major gastrointestinal & peri...	10/1/2018	10/1/2018	2	K569 : Major gastrointestinal & peri...	\$3,534
1000000000	Non MD Provider	Septicemia & disseminated in...	10/1/2018	10/1/2018	3	A4151 : Sepsis due to Escherichia ..	\$4,491
1000000000	Non MD Provider	Acute myocardial infarction	10/1/2018	10/1/2018	2	I219 : Acute myocardial infarction	\$3,534
1000000000	Non MD Provider	Septicemia & disseminated in...	10/1/2018	10/1/2018	3	A4151 : Sepsis due to Escherichia ..	\$4,491
1000000000	Non MD Provider	Renal failure	10/1/2018	10/1/2018	3	N189 : Renal failure	\$3,764
1000000000	Non MD Provider	Cardiac arrhythmia & conduct...	10/1/2018	10/1/2018	3	I481 : Persistent atrial fibrillation	\$3,208
1000000000	Non MD Provider	Asthma	10/1/2018	10/1/2018	2	J440 : Chronic obstructive pulmon...	\$25,865
1000000000	Non MD Provider	Hip & femur procedures for tr...	10/1/2018	10/1/2018	2	M8448XA : Pathological fracture, ..	\$4,106
1000000000	Non MD Provider	Acute myocardial infarction	10/1/2018	10/1/2018	2	I219 : Acute myocardial infarction	\$3,534
1000000000	Non MD Provider	Intracranial hemorrhage	10/1/2018	10/1/2018	2	I619 : Intracranial hemorrhage	\$3,534
1000000000	Non MD Provider	Post-operative, post-traumat...	10/1/2018	10/1/2018	2	K869 : Post-operative, post-traumat...	\$3,534
1000000000	Non MD Provider	Septicemia & disseminated in...	10/1/2018	10/1/2018	3	A4151 : Sepsis due to Escherichia ..	\$4,491
1000000000	Non MD Provider	Septicemia & disseminated in...	10/1/2018	10/1/2018	3	A4151 : Sepsis due to Escherichia ..	\$4,491

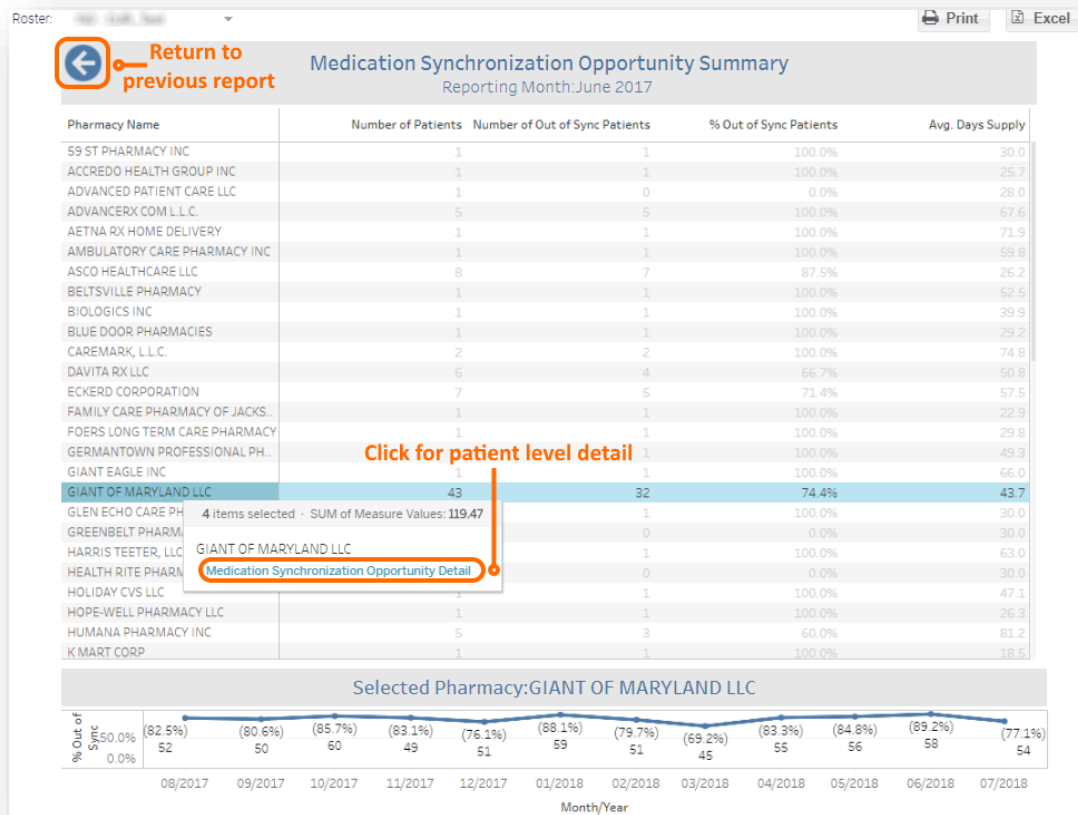
Readmission details							
Member ID	Provider Name	APR DRG	Claim From Date	Claim Thru	LOS	Primary Diagnosis	Total Payments
1000000000	Non MD Provider	Fever	10/1/2018	10/1/2018	6	R509 : Fever, unspecified	\$7,998

**Admissions with Readmission** provides claim-level details for acute care hospitalizations that preceded readmissions within 30 or 90 days (as selected in the base report). This report shows every readmission, including index acute care hospital, APR DRG, claim from and through dates, LOS, primary diagnosis, and total payments for the selected patient roster.

## 7.2.4 Medication Synchronization Opportunity Summary



**Medication Synchronization Opportunity Summary** ranks the pharmacies by number and proportion of patients who did not receive medication reconciliation. Click on **Medication Synchronization Opportunity Detail** to access patient-level details.



The **Medication Synchronization Opportunity Summary** report lists pharmacies with the number of patients that fill prescriptions there, the number of those patients that are out of sync, the percentage of out of sync patients, and the average supply in days of filled prescriptions. Selecting a pharmacy will populate a graph at the bottom of the report that depicts the percentage of out of sync patients for the previous 12-months of claims. Mousing over a selected pharmacy will yield a tooltip with a link to the **Medication Synchronization Opportunity Detail** report.

## 7.2.5 Medication Synchronization Opportunity Detail

Key Performance Metrics - PH - MSOD

Roster: PH - MSOD Print Excel

[Click to return to previous report](#)

### Medication Synchronization Opportunity Detail

GIANT OF MARYLAND LLC  
Reporting Month: 06/2017

Member Name: (All) Synchronized Members: (All)

Member ID	Member Name	Member ZIP Code	Number of Pharmacies Used	Number of Drugs	Number of Prescribers	Avg. Days Supply	Avg Difference Between Fill Dates
000000000000	000000000000	00000	1	5	3	15.1	6.2
000000000000	000000000000	00000	1	2	1	60.0	0.0
000000000000	000000000000	00000	1	4	1	26.7	10.0
000000000000	000000000000	00000	1	4	2	45.0	14.0
000000000000	000000000000	00000	1	7	4	20.1	3.1
000000000000	000000000000	00000	1	2	1	90.0	0.0
000000000000	000000000000	00000	1	5	4	78.0	17.4
000000000000	000000000000	00000	1	1	1	25.0	0.0
000000000000	000000000000	00000	1	8	5	32.0	10.9
000000000000	000000000000	00000	1	6	2	30.0	4.7
000000000000	000000000000	00000	1	1	1	90.0	0.0
000000000000	000000000000	00000	1	3	2	70.0	5.0
000000000000	000000000000	00000	1	2	1	20.0	0.0
000000000000	000000000000	00000	1	1	1	30.0	0.0
000000000000	000000000000	00000	1	1	1	30.0	0.0
000000000000	000000000000	00000	1	3	2	32.5	2.0
000000000000	000000000000	00000	1	4	1	71.0	8.0
000000000000	000000000000	00000	1	3	2	7.8	2.0
000000000000	000000000000	00000	1	7	4	59.3	3.9
000000000000	000000000000	00000	1	2	2	48.5	7.0
000000000000	000000000000	00000	1	4	2	52.5	2.3
000000000000	000000000000	00000	1	2	2	30.0	5.0
000000000000	000000000000	00000	1	3	3	56.7	3.3
000000000000	000000000000	00000	1	4	3	70.0	5.5
000000000000	000000000000	00000	1	4	4	29.2	7.5
000000000000	000000000000	00000	1	8	2	42.9	5.8
000000000000	000000000000	00000	1	2	2	60.0	10.5

The **Medication Synchronization Opportunity Detail** report (KPMR – PH – MSOD) lists patients who have not received medication synchronization, or have their prescriptions filled on multiple dates each month or every three months using multiple pharmacies. To access this report, click on the Pharmacy Name from the **Medication Synchronization Opportunity Summary**.

## 7.3 Key Performance Metrics Report – Indexed Enrollment

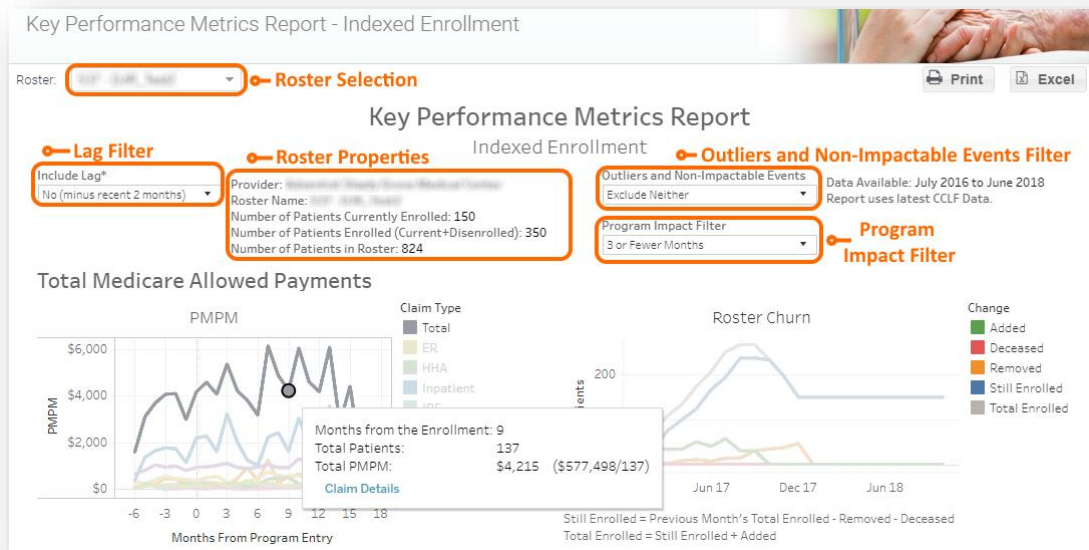
**ADVISORY:** The **Key Performance Metrics Report – Indexed Enrollment** can only be generated for a roster that has the user editable field ‘Date of Consent’ populated for patients. Patients without a date populated are assumed to not yet be receiving the program intervention. The ‘Date of Consent’ field is used as a proxy for the start of a patient receiving the intervention.

**Key Performance Metrics Report – Indexed Enrollment (KPMR-IE)** shows utilization trends for patients once they are enrolled to receive a program intervention. Unlike in KPMR-PH, *only patients with a corresponding ‘Date of Consent’ are depicted*, and all “Dates of Consent” are all indexed to month “0.” Indexing all enrolled patients to month “0” allows for a direct review of an intervention’s impact on a population receiving an intervention.

CHART NAME	DESCRIPTION	DRILL DOWN CAPABILITY
PMPM	Average per member per month payments by Claim Type	Drill down to <b>Claim Details</b>
Roster Churn	The influx and outflux of patients receiving intervention in the roster over time (Non-indexed)	No Drill Down reporting
Hospitalizations per 1,000 Beneficiaries	Admissions to Short-term Acute Care Hospitals either within the Hospital System or Regional Partnership, according to chart filter selection	Drill down to <b>Claim Details</b>
Length of Stay	Per month average length of stay at the index hospital	No Drill Down reporting
ED visits per 1,000 Beneficiaries	ED admissions to Short-term Acute Care Hospitals either within the Hospital System or Regional Partnership according to chart filter selection	Drill down to <b>Claim Details</b>
All Cause Readmissions by First PAC	Readmission rates by month for patients discharged from your STACH grouped by their first PAC setting	Drill down to <b>Admissions with Readmission</b>
Percent of Total Readmissions to a Different Provider: (All Cause)	The percent of patients readmitted to a hospital different from the index hospital. Readmissions can be identified using either as All Cause definition or filtered by conditions included in the Readmission Reduction Incentive Program (RRIP). A filter for 30 or 90-day readmissions can also be applied.	No Drill Down reporting
Physician Visits per 1,000 Beneficiaries	Counts of physician visits per 1,000 beneficiaries	No Drill Down reporting
Medication Synchronization Opportunity	The percent of patients per month who are eligible for medication synchronization. Asynchronization is identified as patients who fill prescriptions on multiple days in a month and/or at multiple pharmacies	Drill down to <b>Medication Synchronization Opportunity Summary</b>

## 7.3.1 Report Filters

Several Report filters are available to customize the report.



**Selected Roster:** KPMR-IE will not load without selecting a roster. This roster may include all patients that fit enrollment criteria for an intervention, i.e. both those that are enrolled, as well as any that are eligible to be enrolled in the future. However, only patients with “Date of Consent” populated will be depicted in KPMR-IE.

**Lag Filter:** Include or exclude the most recent two calendar months’ claims, which are considered incomplete due to lags in claim payment.

**Roster Properties:** Provides summary information regarding the selected roster.

1. Provider: Hospital Name
2. Roster Name: Label of the selected roster.
3. Number of Patients Currently Enrolled: The number of patients with dates of consent and no date of disenrollment present within the selected roster.
4. Number of Patients Enrolled: The count of patients in the roster that have a date of consent with no exclusion for disenrollment.
5. Number of Patients in Roster: The total count of patients in the roster, including expired and disenrolled patients.

**Outliers and Non-Impactable Events Filter:** This filter allows exclusion of patients with claims outside the 95<sup>th</sup> percentile of claims (Outliers) and/or for claims for conditions that are not likely to be affected by care management (Non-Impactable).

**Program Impact Filter:** To limit the report to utilization trends directly attributed to the program intervention, utilization data for patients enrolled in the program for fewer than 3 months are excluded by default. This exclusion aims to address regression to the mean concerns and the typical ramp-up for impacting care through program interventions. Users may elect to show all available data or extend the exclusion to 6 months.

## 7.3.2 Claim Details

The **Claim Details** drill down is accessible through the Total Medicare Allowed Payments, Hospitalizations or ED Visits per 1,000 Beneficiaries, and All Cause Readmissions by First PAC charts, and it shows individual claims at the patient level with columns indicating the Claim Type, Member ID, Last Name, First Name, Provider Name, Claim From Date, Claim Through Date, Length of Stay (LOS), APR DRG, Primary Diagnosis, and Total Payments. Additionally, there is a filter to exclude Outliers, Non-Impactable Events, or both. Mouse over any row for additional information via a tooltip. The **Claim Details** drill down maintains the indexing from the previous view. In the screenshot below, each claim occurred the same number of months following a patient's indicated 'Date of Consent' in the roster. Mouse over a Total Payments value to view the **Tooltip**.

When navigating the **Claims Details** drill down, use the blue arrow to return to KPMR-IE. Your browser's back button will not bring you the previously viewed report.

Key Performance Metrics - IE - Claim Details

Roster: Medicare Roster Selection Print Excel

Back Button Claim Type Filter **Claim Details** Outliers & Non-Impactable Events Filter

Claim Type: (All) Outliers & Non-Impactable Events: Exclude Neither

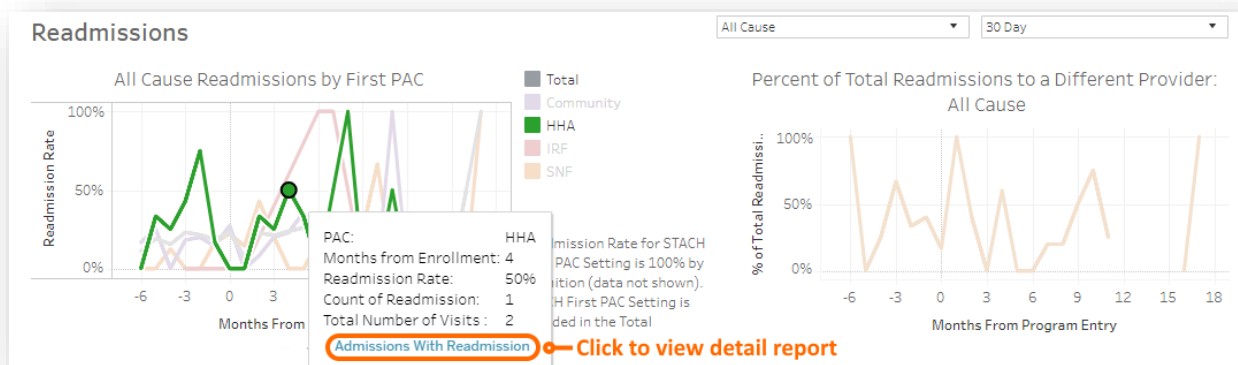
Claim Type	Member ID	Last Name	First Name	Provider Name	Claim From Date	Claim Through Date	LOS	APR DRG	Primary Diagnosis	Total Payments
HHA	1000000000	WILSON	WILSON	New York-Presbyterian	06/29/2018	06/30/2018			S62636A : Disp fx of distal phala...	\$410
	1000000000	WILSON	WILSON	New York-Presbyterian	03/07/2018	04/09/2018			J441 : Chronic obstructive pulm...	\$4,312
	1000000000	WILSON	WILSON	New York-Presbyterian	09/30/2017	10/01/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	10/21/2017	10/22/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	05/20/2017	05/21/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	08/09/2018	08/10/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	09/20/2017	09/21/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	04/10/2018	04/11/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	11/13/2017	11/14/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	03/12/2018	03/13/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	11/26/2017	11/27/2017				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	06/08/2018	06/09/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	05/24/2018	05/25/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	04/19/2018	04/20/2018				\$5,100
	1000000000	WILSON	WILSON	New York-Presbyterian	06/09/2018	08/01/2018			M4712 : Other spondylosis with ...	\$3,900
1000000000	WILSON	WILSON	New York-Presbyterian	04/30/2018	05/24/2018			I313 : Pericardial effusion (noni...	\$3,832	
1000000000	WILSON	WILSON	New York-Presbyterian	02/21/2018	08/16/2018			L89150 : Pressure ulcer of sacral...	\$7,889	
1000000000	WILSON	WILSON	New York-Presbyterian	05/14/2018	07/13/2018			I110 : Hypertensive heart diseas...	\$4,573	
1000000000	WILSON	WILSON	New York-Presbyterian	06/11/2018	08/06/2018			I110 : Hypertensive heart diseas...	\$5,649	
1000000000	WILSON	WILSON	New York-Presbyterian	03/20/2018	04/13/2018			S72041D : Disp fx of base of nk o...	\$3,522	
1000000000	WILSON	WILSON	New York-Presbyterian	06/18/2017	09/20/2017			M6281 : Muscle weakness (gene...	\$7,758	
1000000000	WILSON	WILSON	New York-Presbyterian	06/09/2018	06/09/2018			S2231XD : Fracture of one rib, ri...	\$2,328	
1000000000	WILSON	WILSON	New York-Presbyterian	04/20/2018	06/15/2018			R296 : Repeated falls	\$5,542	

**Tooltip:**

Claim Type: HHA  
 First Name: WILSON  
 Last Name: WILSON  
 APR DRG:  
 Claim From Date: 03/07/2018  
 Claim Through Date: 04/09/2018  
 Member ID: 1000000000  
 Provider Name: New York-Presbyterian  
 Primary Diagnosis: J441 : Chronic obstructive pulmonary disease w (acute) exacerbation  
 LOS:  
 Total Payments: \$4,312



## 7.3.3 Admissions with Readmission



Having selected a point in the **All Cause Readmissions by First PAC** chart, and mousing over that data point, a link labeled **Admissions With Readmission** will direct to a report with claims data regarding patients' readmissions to all settings with a filter to limit readmissions by care setting. The **Admissions with Readmission** detail report shows total payments per patient per readmission including the primary diagnosis and related APR DRG. Mousing over a specific row in this report will yield a tooltip with information regarding the claim.

Key Performance Metrics - IE - Admissions with Readmission

Roster: 1001 - 1001, 1002

Print Excel

Member ID	Provider Name	APR DRG	Claim From	Claim Thru	LOS	Primary Diagnosis	Total Payments
1001-1001	Readmission Provider	Chronic obstructive pulmonar...	06/23/2018	06/23/2018	2	J441 : Chronic obstructive pulmon...	\$3,212
1001-1001	Readmission Provider	Cellulitis & other skin infectio...	01/16/2018	02/03/2018	18	L03115 : Cellulitis of right lower li...	\$40,220
1001-1001	Readmission Provider	Septicemia & disseminated in...	10/23/2017	11/20/2017	1		
1001-1001	Readmission Provider	CVA & precerebral occlusion ...	11/20/2017	09/19/2017	09		
1001-1001	Readmission Provider	Other pneumonia	09/19/2017	04/21/2018	04		
1001-1001	Readmission Provider	Other anemia & disorders of ...	04/21/2018	12/07/2017	12		
1001-1001	Readmission Provider	Respiratory failure	12/07/2017	12/11/2017	12		
1001-1001	Readmission Provider	Other & unspecified gastroint...	12/11/2017	09/18/2017	09		
1001-1001	Readmission Provider	Non-hypovolemic sodium dis...	09/18/2017	10/06/2017	10		
1001-1001	Readmission Provider	Respiratory failure	10/06/2017	09/22/2017	10		
1001-1001	Readmission Provider	Other non-hypovolemic electr...	09/22/2017	06/22/2018	06		
1001-1001	Readmission Provider	Other & unspecified gastroint...	06/22/2018				

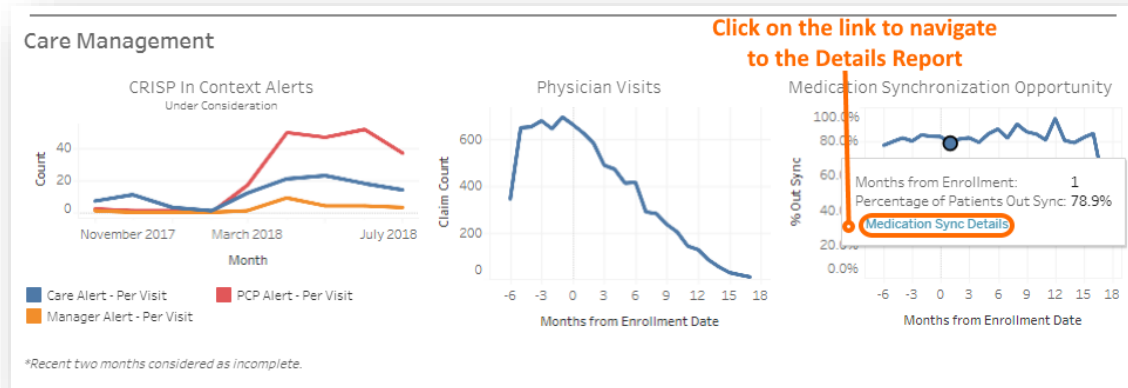
Tooltip:

- readmission id: 1001-1001
- Readmission Provider: Different Provider
- Claim No: 1001-1001
- APR DRG: Cellulitis & other skin infections
- Claim From Date: 01/16/2018
- Claim Through Date: 02/03/2018
- Member ID: 1001-1001
- Provider Name: Readmission Provider
- Primary Diagnosis: L03115 : Cellulitis of right lower limb
- readm\_clm\_id\_30: 1001-1001
- readm\_clm\_id\_90: 1001-1001
- LOS: 18
- PAC: STACH
- Total Payments: \$40,220

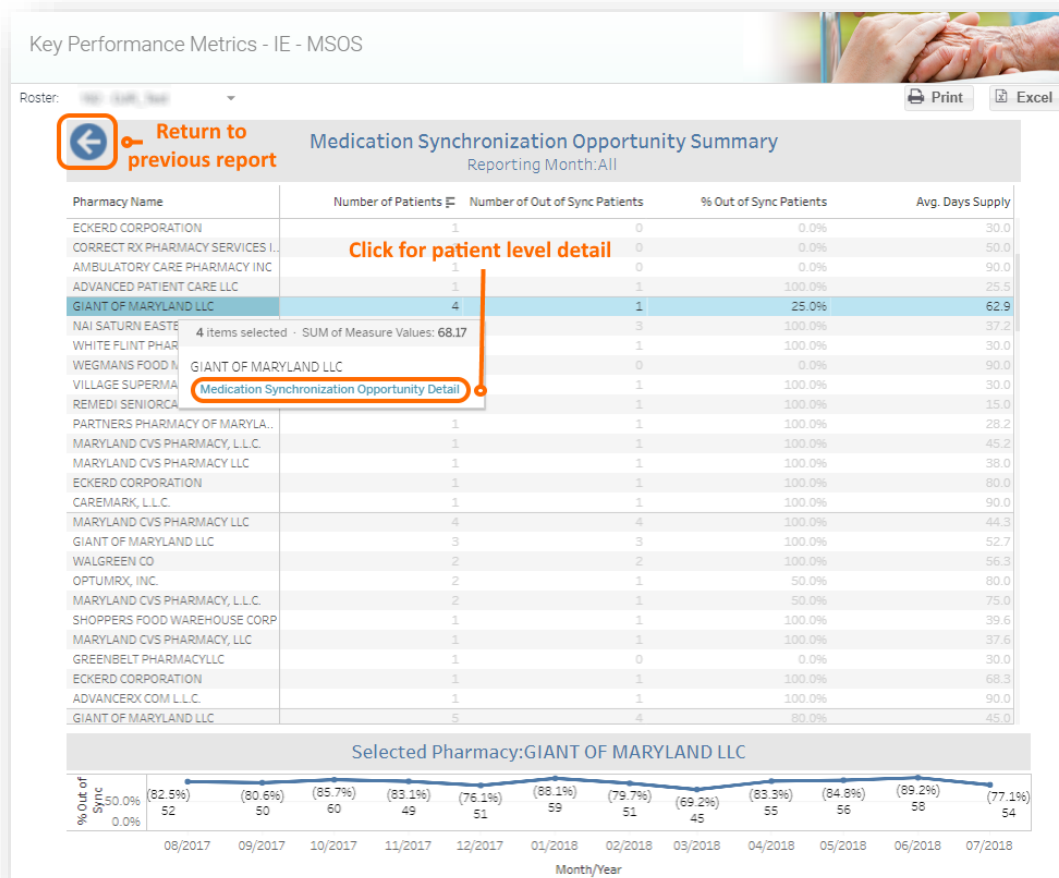
Member ID	Provider Name	APR DRG	Claim From Date	Claim Thru	LOS	Primary Diagnosis	Total Payments
1001-1001	Readmission Provider	Cellulitis & other skin infectio...	02/03/2018	02/16/2018	13	L03115 : Cellulitis of right lower li...	\$31,909

**Admission with Readmission** provides claim-level details for acute care hospitalizations that preceded readmissions within 30 or 90 days (as selected in the base report). This report shows every readmission, including index acute care hospital, APR DRG, claim from and through dates, LOS, primary diagnosis, and total payments for the selected patient roster. Report can be downloaded to Excel or printed.

## 7.3.4 Medication Synchronization Opportunity Summary



**Medication Synchronization Opportunity Summary** ranks the pharmacies by number and proportion of patients who did not receive medication reconciliation. Click on **Medication Synchronization Opportunity Detail** to access patient-level details.





The **Medication Synchronization Opportunity Summary** report lists pharmacies with the number of patients who fill prescriptions there, the number of those patients who are out of sync, the percentage of patients who are out of sync, and the average supply in days of filled prescriptions. Selecting a pharmacy will populate a graph at the bottom of the report that depicts the percentage of out of sync patients for the previous 12-months of claims. Mousing over a selected pharmacy will yield a tooltip with a link to the **Medication Synchronization Opportunity Detail** report.

### 7.3.5 Medication Synchronization Opportunity Detail

Key Performance Metrics - IE - MSOD

Roster: 100 - 1000 - 1000

Print Excel

Click to return to previous report

Medication Synchronization Opportunity Detail

Reporting Month: 05/2017

Member Name: (All) Synchronized Members: (All)

Member ID	Member Name	Member ZIP Code	Number of Pharmacies Used	Number of Drugs	Number of Prescribers	Avg. Days Supply	Avg Difference Between Fill Dates
000000000000000000	000000000000000000	00000	1	5	1	90.0	0.0
000000000000000000	000000000000000000	00000	1	3	2	90.0	8.0
000000000000000000	000000000000000000	00000	1	4	2	90.0	2.8
000000000000000000	000000000000000000	00000	2	3	2	48.3	13.3
000000000000000000	000000000000000000	00000	1	3	1	90.0	0.0
000000000000000000	000000000000000000	00000	2	7	1	36.7	3.1
000000000000000000	000000000000000000	00000	1	5	3	90.0	3.6
000000000000000000	000000000000000000	00000	1	5	3	90.0	6.2
000000000000000000	000000000000000000	00000	1	2	2	90.0	13.0
000000000000000000	000000000000000000	00000	2	2	2	60.0	1.5
000000000000000000	000000000000000000	00000	1	2	1	90.0	3.5
000000000000000000	000000000000000000	00000	1	5	3	90.0	5.4
000000000000000000	000000000000000000	00000	1	9	3	90.0	1.0
000000000000000000	000000000000000000	00000	1	3	1	90.0	0.3

The **Medication Synchronization Opportunity Detail** report (KPMR – IE – MSOD) lists patients who have not received medication synchronization, or have their prescriptions filled on multiple dates each month or every three months using multiple pharmacies. To access this report, click on the Pharmacy Name from the **Medication Synchronization Opportunity Summary**.



## 7.5 SNF Utilization Reports

The SNF Utilization Reports present reported and risk adjusted SNF utilization metrics for attributed Medicare FFS beneficiaries discharged from an acute care hospital and immediately (within 3 days) admitted to a SNF. The goal of the report is to present select quality indicators for the SNF including the 30-day readmission rate back to an acute care hospital (within 30-days from discharge from the initial acute care hospital), length of stay in the SNF, and SNF payment. The SNF admissions reflected in this report can be either from the attributed hospital, or from any other preceding hospital. That is, some of the SNF admissions represented in the report may not have been initiated from an admission at the attributed hospital.

Comparing reported values are misleading as the complexity and severity of patients differ across SNFs. This report risk-adjusts key measures to account for differences in underlying conditions, and the resulting expected readmission rates, allowing for comparison across SNFs or the specific DRG family or Service Line of the preceding hospital stay based on APR DRGs.

This report can be used to identify high performing SNFs along any combination of the risk-adjusted metrics. The three risk adjusted metrics included in the report feature color coding to distinguish data points as notably higher (Red), lower (Green) or similar (Grey) to the weighted average for that metric, which are presented on the top row of the report.

In October 2019, CMS modified the payment methodology for SNFs. The Patient Driven Payment Model (PDPM) replaced the Resource Utilization Groups (RUGs) previously used to determine payment for SNF stays. SNF admissions starting in October 2019 are reimbursed using PDPM, and prior admissions use RUGs.

The risk adjustments for average LOS and average SNF paid are calculated using the normalized average RUG and/or PDPM rate of the SNFs and Service Lines selected. The rate is a hybrid of the RUG and PDPM rates for the most recent 12 months by default. In Service Line Details, the risk adjustments use only the respective figures for the same Service Line(s) across the selected SNFs. The overall average RUG/PDPM rate is 1.0 in the 'Grand Total' row for the selected SNFs and Service Line(s) because the risk adjustment calculations divide by the overall Avg. RUG/PDPM rate (it is divided by itself). The formulas for calculating the normalized average RUG/PDPM rate and the risk adjusted LOS and SNF paid values are presented below. For ease of presentation, the combined RUG/PDPM rate is presented simply as RUG Rate in the risk adjustment calculations below.

$$1. \text{ Normalized Avg. RUG Rate} = \frac{\text{SNF Provider Avg. RUG rate (or SNF Provider Avg. RUG Rate by Service Line)}}{\text{Overall Avg. RUG rate (or Overall Avg. Service Line RUG Rate)}}$$

$$2. \text{ Risk Adj. Avg. SNF Paid} = \frac{\text{Avg. SNF Paid (or Avg. SNF Paid by Service Line)}}{\text{Risk Adj. Avg. RUG Rate (or Risk Adj. Avg. Service Line RUG Rate)}}$$

$$3. \text{ Risk Adj. Avg. LOS} = \frac{\text{Avg. SNF LOS (or Avg. Service Line SNF LOS)}}{\text{Risk Adj. Avg. RUG Rate (or Risk Adj. Avg. Service Line RUG Rate)}}$$

Risk adjustment for readmissions are based on the HEDIS® Plan All-Cause Readmission (PCR) rate for each SNF and Service Line presented. This measure is used to calculate an expected readmission rate for each beneficiary following an inpatient stay based on the presence of surgeries during the inpatient stay, discharge condition, comorbidity, age, and gender. These PCR expected readmission rates are then aggregated at the SNF and Service Line levels. The readmission rate risk adjustments are calculated according to the formulas below:

#### 4. *Risk Adj. Readm. Rate through SNF*

$$a. \text{ SNF level} = \frac{\text{Overall Avg. PCR Discharged to SNFs}}{\text{SNF Specific Avg. PCR Discharged to SNF}} * \text{Readmission Rate through SNF}$$

$$b. \text{ Service Line level} = \frac{\text{Overall Avg. PCR Discharged to SNFs by Service Line}}{\text{SNF Specific Avg. PCR Discharged to SNF by Service Line}} *$$

#### *Service Line Readm. Rate through SNF*

FILTER NAME	DESCRIPTION
SNF Provider	Select one, multiple, or all available SNFs on which to view metrics.
DRG Family	Select one APR DRG grouping of the hospitalization preceding the SNF admission.
Service Line	Select one, multiple, or all available Service Lines. Service Lines are directly based on the APR DRG of the preceding hospitalization <ul style="list-style-type: none"> <li>Masked Report: This filter can only be applied to the Service Line Details view. The default compressed view will represent all Service Lines in aggregate.</li> <li>Unmasked Report: This filter can be applied to the default compressed view in aggregate or to the Service Line Details view.</li> </ul>
Date of Discharge from Acute Care Hospital	Select months during which beneficiaries were discharged to a SNF
Discharged to SNF	Total count of beneficiaries discharged from an acute care hospital to the given SNF
30-day Readmission Count - SNF	Total count of readmissions to an acute care hospital following discharge to SNF according to HEDIS® unplanned readmission algorithm.
Avg SNF Paid	Average Medicare payment to the SNF
Avg LOS	Average length of stay for Medicare beneficiaries admitted to the SNF
Normalized Avg RUG/PDPM Rate	Average blended RUG and PDPM rates for the hospital attributed beneficiaries discharged to the SNF, normalized to 1.0 for the overall population of attributed beneficiaries or specific Service Line admitted to any SNF presented in the report (SNF-specific RUG/PDPM Rate divided by the Overall RUG/PDPM Rate; input data not shown)
Risk Adjusted – Avg SNF/PDPM Paid	Average Medicare payment to the SNF, adjusted by the Normalized Avg RUG/PDPM rate (Avg SNF Paid / Normalized Avg RUG/PDPM Rate).

	This is recalculated using the Normalized Avg RUG/PDPM rate per Service Line across selected SNFs in Service Line detail view.
<b>Risk Adjusted – Avg LOS</b>	Average length of stay for Medicare beneficiaries, adjusted by the Normalized RUG/PDPM rate. (Avg LOS / Normalized Avg RUG/PDPM Rate). This is recalculated using the Normalized Avg RUG/PDPM rate per Service Line across selected SNFs.
<b>Readmission rate through SNF</b>	Average readmission rate to an acute care hospital within 30 days (30-day Readmission Count – SNF / Discharged to SNF).
<b>Avg PCR – Discharged to SNF</b>	Expected average readmissions rate for patients discharged to a SNF according to HEDIS® Plan All-Cause Readmission (PCR) methodology. PCR captures only unplanned readmissions.
<b>Risk Adjusted Readmission Rate Through SNF</b>	Readmission rate adjusted by expected readmission risk (PCR) relative to the overall population or specific Service Line [(Overall or Service Line Avg PCR / SNF Avg or SNF Service Line PCR) * Overall or Service Line Readmission Rate through SNF]

These reports can be printed to PDF (based only on the current view of the screen) and exported to Excel. Users will need to add conditional formatting to the Excel version of the report, as that functionality is not available in the download.

The details of the Masked and Unmasked view are presented below.

## 7.5.1 SNF Utilization Report Masked

The masked version of this report suppresses cells with fewer than 11 observations, as those data are considered PHI. All users – those with and without PHI access will have access to this report. Because it does not contain PHI, the report may be distributed to any relevant hospital or SNF staff.

The default view of the report shows all discharges to SNFs that have greater than 10 admissions among beneficiaries attributed to the hospital. Any SNF with fewer than 11 admissions in total across all Service Lines is omitted. In this view, Service Lines cannot be filtered or selected. When expanding to view Service Line Details, Service Lines with fewer than 11 observations will also be omitted. Therefore, the total number of admissions displayed in the default view will often differ from the Subtotal displayed in the Service Line Details view.

When viewing all SNFs, the results can be interpreted relative to the overall performance of the SNF across all discharges, within the presented time period for the attributed beneficiaries. However, when narrowing the selection using the SNF Provider filter, the risk adjustments will then be conducted among the population included in each presented Service Line.

The screenshots below display the default view of the Masked report, as well as the Service Line Details view.

**SNF Utilization**  
Risk-Adjusted 30-Day Readmission Rates from Date of Discharge from Acute Care Hospital  
Data Covering Admissions Starting Between June, 2018 - May, 2019

SNF Provider: All

Service Line filter selection not available in default view

Use dropdown to expand view to service line details

DRG Family: All Hospital Discharges to SNF

Date of Discharge From Acute Care Hospital: Multiple values

Totals when compressed (-) represent all admissions "Discharged to SNF."  
Details when expanded + are not displayed for Service Lines with <11 admissions "Discharged to SNF."

Risk adjusted columns are color sorted (red is above mean, green below)

Service Line	Discharges to SNF	Admissions	Readmission Rate	Risk-Adjusted Readmission Rate	Risk-Adjusted Readmission Rate (95% CI)	Risk-Adjusted Readmission Rate (95% CI)	Risk-Adjusted Readmission Rate (95% CI)	Risk-Adjusted Readmission Rate (95% CI)	Risk-Adjusted Readmission Rate (95% CI)	Risk-Adjusted Readmission Rate (95% CI)
Grand Total	7,701	1,784	\$11,864	31.0	1.00	\$11,864	31.0	23.17%	21.89%	23.17%
222562-Fal-Corydon, Inc.	568	83	\$10,251	21.1	1.06	\$9,631	19.8	14.61%	15.78%	20.30%
222409-Sweet Neches Property...	362	117	\$11,537	37.7	1.02	\$11,283	36.9	32.32%	26.09%	27.10%
222565-Diakon Lutheran Social ...	302	72	\$14,869	35.1	1.03	\$14,370	33.9	23.84%	22.62%	23.09%
222395-Forest Haven Nursing A...	294	76	\$11,764	31.3	1.00	\$11,756	31.3	25.85%	21.43%	26.41%
222588-Mont Belvieu Rho C...	202	51	\$11,749	24.5	1.05	\$11,242	23.5	25.25%	17.15%	32.14%
222553-Alegria Living & Healthc...	185	37	\$7,571	16.0	0.98	\$7,744	16.4	20.00%	18.41%	23.72%
222497-Pinnacle Health Facilitie...	178	37	\$12,007	30.9	0.96	\$12,535	32.3	20.79%	19.44%	23.43%
222438-Pine Hills Health And Re...	176	48	\$12,255	38.2	0.96	\$12,789	39.9	27.27%	20.83%	28.62%
222399-CARE CENTER	166	22	\$10,205	22.8	1.06	\$9,617	21.5	13.25%	17.61%	16.26%
222508-Qi's Bethel Park Llc	153	26	\$13,394	33.7	0.95	\$14,065	35.4	16.99%	16.95%	21.89%
222573-Colonial Manor Health C...	149	20	\$12,446	27.2	1.03	\$12,098	26.4	13.42%	17.33%	16.85%
222523-Paragon	139	34	\$12,308	28.9	1.00	\$12,367	29.0	24.46%	19.75%	26.94%
222384-Nocona Hospital District	138	35	\$18,613	40.0	1.08	\$17,209	37.0	25.36%	20.22%	27.44%
222569-New Rochelle Care Cent...	136	32	\$16,489	61.4	0.97	\$17,071	63.6	23.53%	24.71%	20.90%
222480-Cgnsco Lansdale Lp	133	36	\$10,582	38.8	1.00	\$10,611	39.0	27.07%	28.53%	20.74%
222454-Presbyterian Homes In ...	129	32	\$13,685	44.1	1.05	\$13,086	42.2	24.81%	22.01%	24.58%
222333-SH Opco Rancho Mirag...	118	24	\$11,763	27.8	0.97	\$12,109	28.6	20.34%	18.17%	24.42%
222692-ACUTE CARE CENTER	113	28	\$15,636	36.9	1.04	\$14,983	35.4	24.78%	31.33%	17.38%
222515-Marietta Care, Llc	104	31	\$10,364	42.0	0.94	\$11,053	44.8	29.81%	31.70%	20.65%
222461-ROSSVILLE	94	26	\$9,860	29.3	0.89	\$11,058	32.9	27.66%	25.79%	23.47%
222346-Florissant Medical Inve...	93	34	\$8,076	32.2	0.80	\$10,107	40.3	36.56%	36.97%	21.74%
222443-The Waters Of West Dix...	84	31	\$11,859	31.6	1.10	\$11,859	28.6	25.81%	23.52%	23.98%
222420-Granite Falls Municipal ...	84	21	\$11,640	20.1	0.99	\$8,570	20.3	29.55%	18.84%	34.46%
222479-Extendicare Homes, Inc.	84	21	\$11,640	27.7	0.97	\$11,942	28.4	25.00%	17.24%	31.59%
222571-Enid Senior Care Llc	80	21	\$11,796	38.9	0.95	\$12,413	40.9	26.25%	36.35%	16.14%
222344-Hamilton Park Multicar...	78	22	\$16,830	37.5	1.04	\$16,131	36.0	< 11	21.32%	13.19%
222503-Autumn Leaves Nursing ...	77	22	\$9,898	36.2	1.07	\$9,237	33.8	28.57%	19.55%	32.13%
222351-Hendon Garden Center L...	73	19	\$9,792	27.2	1.01	\$9,698	26.9	26.03%	18.31%	31.20%
222501-Asic Opco Rl I, Llc	72	27	\$11,735	29.0	1.00	\$11,717	29.0	37.50%	28.41%	28.86%
222663-ROLAND PARK	68	20	\$9,373	22.3	0.97	\$9,689	23.1	29.41%	23.89%	26.82%
222623-Willow Snf Llc	64	14	\$12,177	27.6	0.98	\$12,387	28.1	21.88%	21.18%	22.53%

Any counts with < 11 are suppressed in the default view

# Monitoring Reports

**SNF Utilization**  
Risk-Adjusted 30-Day Readmission Rates from Date of Discharge from Acute Care Hospital  
Data Covering Admissions Starting Between June, 2018 - May, 2019

SNF Provider: All  
DRG Family: All Hospital Discharges to SNF  
Service Line: All  
Date of Discharge From Acute Care Hospital: Multiple values

Totals are calculated on presented service lines. Totals may be different than in the default view.

Select '+' to view Service Line details

Totals when compressed (-) represent all admissions "Discharged to SNF."

Service lines are risk adjusted to SNF admissions for the same service line across the SNFs included in the current view of the report.

Select '+' for Service Line details

Any service lines with <11 Discharged to SNF are hidden and not included in calculations. Selected service lines with ≥ 11 Discharged to SNF are shown.

SNF Provider	Service Line	30-Day Readmission Rate	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)	30-Day Readmission Rate (Risk-Adjusted)
Grand Total	Total	3,088	689	\$11,960	30.5	1.00	\$11,960	30.5	22.31%	20.56%	23.57%	
222562-Fal-Corydon, Inc.	Total	516	78	\$10,268	21.1	1.05	\$9,802	20.1	15.12%	15.45%	21.27%	
	Orthopedic Surgery	138	12	\$10,655	20.7	1.08	\$9,861	19.2	8.70%	10.09%	11.60%	
	Cardiology	35	< 11	\$10,085	21.5	1.06	\$9,535	20.3	< 11	22.04%	23.92%	
	Infectious Disease	75	11	\$10,190	22.4	1.00	\$10,159	22.4	14.67%	19.49%	19.11%	
	Neurology	47	< 11	\$10,999	23.0	1.05	\$10,470	21.9	< 11	15.60%	9.80%	
	General Medicine	55	< 11	\$9,460	18.4	1.04	\$9,132	17.8	< 11	14.82%	25.73%	
	Pulmonary	57	16	\$8,445	16.8	1.02	\$8,305	16.6	28.07%	18.84%	40.01%	
	Gastroenterology	28	< 11	\$8,881	17.9	1.04	\$8,558	17.2	< 11	15.26%	22.75%	
	General Surgery	26	< 11	\$10,632	23.5	1.04	\$10,201	22.6	< 11	14.47%	18.28%	
	Orthopedics	36	< 11	\$13,032	26.9	1.07	\$12,129	25.1	< 11	13.23%	10.09%	
	Nephrology	19	< 11	\$10,399	23.4	1.05	\$9,872	22.2	< 11	23.51%	48.70%	
222409-Sweet Neches Properties, Ltd.	Total	314	104	\$11,463	37.8	1.01	\$11,381	37.5	33.12%	26.08%	27.62%	
	Orthopedic Surgery	43	14	\$13,807	39.9	1.04	\$13,311	38.5	32.56%	18.39%	23.84%	
	Cardiology	44	19	\$9,696	34.6	0.99	\$9,763	34.9	43.18%	28.98%	39.27%	
	Infectious Disease	44	14	\$10,163	34.3	0.99	\$10,304	34.7	31.82%	30.07%	26.87%	
	Neurology	31	< 11	\$12,626	42.0	1.04	\$12,113	40.3	< 11	24.27%	7.17%	
	General Medicine	29	< 11	\$12,571	32.9	1.04	\$12,122	31.7	< 11	23.37%	24.76%	
	Pulmonary	38	14	\$9,162	34.9	0.97	\$9,418	35.9	36.84%	31.02%	31.89%	
	Gastroenterology	19	< 11	\$8,451	60.5	0.93	\$9,126	65.3	< 11	32.62%	39.20%	
	General Surgery	33	12	\$13,204	35.1	1.02	\$12,981	34.5	36.36%	24.11%	34.57%	
	Orthopedics	14	< 11	\$17,758	57.0	0.96	\$18,410	59.1	< 11	19.50%	5.87%	
	Nephrology	19	< 11	\$9,627	22.3	1.08	\$8,903	20.6	< 11	26.45%	48.70%	

## 7.5.2 SNF Utilization Report Unmasked

The unmasked version of the report presents all available data, including those with fewer than 11 admissions. Only users authorized to see PHI data will have access to this report. Distribution of this report outside of MADE should be limited to individuals authorized to see PHI. The default view of the unmasked report is similar to the masked version with the exception that all SNFs are shown and Service Lines are able to be filtered in the default/compressed view.

In the default view of the Unmasked report, individual Service Lines can be selected and deselected without expanding the view of the report. When doing so, selected Service Lines are presented in aggregate, and the risk adjustments are conducted on the overall aggregate 'Normalized Avg RUG/PDPM Rate' and 'Avg PCR – Discharged to SNF' for any selected Service Line(s) among selected SNFs. Care should be taken when interpreting the results with limited Service Lines selected in this view.

When viewing all SNFs, the results can be interpreted relative to the overall performance of the SNF across all discharges, within the presented time period for the attributed beneficiaries. However, when narrowing the selection using the SNF Provider filter, the risk adjustments will then be conducted among the population included in that view.

# Monitoring Reports

The below screenshot shows the default view of the Unmasked report.

SNF Utilization  
Risk-Adjusted 30-Day Readmission Rates from Date of Discharge from Acute Care Hospital  
Strictly for Internal Use - Report Contains PHI  
Data Covering Admissions Starting Between June, 2018 - May, 2019

Service Line filter selections are included in summary row in default view

SNF Provider: All

Select '+' to view Service Line details

DRG Family: All Hospital Discharges to SNF

Service Line: All

Date of Discharge from Acute Care Hospital: Multiple values

Risk adjusted columns are color sorted (red is above mean, green below)

SNF Provider	Readmissions	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate	Readmission Rate
Grand Total	7,701	1,784	\$11,864	31.0	1.00	\$11,864	31.0	23.17%	21.89%	23.17%
222395-Forest Haven Nursing And Rehabil...	568	83	\$10,251	21.1	1.06	\$9,631	19.8	14.61%	15.78%	20.30%
222588-Mont Belvieu Rho Llc	362	117	\$11,537	37.7	1.02	\$11,283	36.9	32.32%	26.09%	27.10%
222553-Alegria Living & Healthcare, Inc.	302	72	\$14,869	35.1	1.03	\$14,370	33.9	23.84%	22.62%	23.09%
222497-Pinnacle Health Facilities XVII Lp	294	76	\$11,764	31.3	1.00	\$11,756	31.3	25.85%	21.43%	26.41%
222438-Pine Hills Health And Rehabilitati...	202	51	\$11,749	24.5	1.05	\$11,242	23.5	25.25%	17.15%	32.14%
222399-CARE CENTER	185	37	\$7,571	16.0	0.98	\$7,744	16.4	20.00%	18.41%	23.72%
222508-Q's Bethel Park Llc	178	37	\$12,007	30.9	0.96	\$12,535	32.3	20.79%	19.44%	23.43%
222573-Colonial Manor Health Care Cente...	176	48	\$12,255	38.2	0.96	\$12,789	39.9	27.27%	20.83%	28.62%
222523-Paragon	166	22	\$10,205	22.8	1.06	\$9,617	21.5	13.25%	17.61%	16.26%
	153	26	\$13,394	33.7	0.95	\$14,065	35.4	16.99%	16.95%	21.89%
	149	20	\$12,446	27.2	1.03	\$12,098	26.4	13.42%	17.33%	16.85%
	139	34	\$12,308	28.9	1.00	\$12,367	29.0	24.46%	19.75%	26.94%

When expanding to Service Line Details in this report, each of the selected Service Lines is presented for each SNF. The risk adjusted LOS and SNF Paid amounts are calculated using the 'Normalized Avg RUG/PDPM Rate' across individual Service Line(s) for the SNFs selected. Similarly, the 'Risk Adjusted - Readmission Rate Through SNF' is calculated using the 'Avg PCR - Discharged to SNF' for the respective individual Service Line(s) of the selected SNFs with that admissions in that Service Line.



# Monitoring Reports

SNF Utilization											
Risk-Adjusted 30-Day Readmission Rates from Date of Discharge from Acute Care Hospital											
Strictly for Internal Use - Report Contains PHI											
Data Covering Admissions Starting Between June, 2018 - May, 2019											
SNF Provider All	DRG Family All Hospital Discharges to SNF					Date of Discharge from Acute Care Hospital Multiple values					
Select + for Service Line details	Service Line All					Service lines are risk adjusted to SNF admissions for the same service line across the SNFs included in the current view of the report					
SNF Provider	Service Line										
Grand Total		7,701	1,784	\$11,864	31.0	1.00	\$11,864	31.0	23.17%	21.89%	23.17%
222562-Fal-Corydon, Inc.	SNF Sub Total	568	83	\$10,251	21.1	1.06	\$9,631	19.8	14.61%	15.78%	20.30%
	Orthopedic Surgery	138	12	\$10,655	20.7	1.10	\$9,700	18.9	8.70%	10.09%	11.60%
	Infectious Disease	75	11	\$10,190	22.4	1.02	\$9,992	22.0	14.67%	19.49%	19.11%
	Cardiology	35	7	\$10,085	21.5	1.08	\$9,379	20.0	20.00%	22.04%	23.92%
	Neurology	47	4	\$10,999	23.0	1.07	\$10,299	21.5	8.51%	15.60%	9.80%
	General Medicine	55	10	\$9,460	18.4	1.05	\$8,983	17.5	18.18%	14.82%	25.73%
	Pulmonary	57	16	\$8,445	16.8	1.03	\$8,169	16.3	28.07%	18.84%	40.01%
	General Surgery	26	3	\$10,632	23.5	1.06	\$10,034	22.2	11.54%	14.47%	18.28%
	Gastroenterology	28	4	\$8,881	17.9	1.06	\$8,418	17.0	14.29%	15.26%	22.75%
	Nephrology	19	8	\$10,399	23.4	1.07	\$9,711	21.8	42.11%	23.51%	48.70%
	Orthopedics	36	3	\$13,032	26.9	1.09	\$11,930	24.6	8.33%	13.23%	10.09%
	Psychiatry	5	0	\$9,696	18.2	1.03	\$9,444	17.7	0.00%	14.08%	0.00%
	Rheumatology	6	0	\$11,383	23.5	1.15	\$9,896	20.4	0.00%	12.60%	0.00%
	Vascular Surgery	1	0	\$8,933	15.0	1.18	\$7,554	12.7	0.00%	17.54%	0.00%
	Invasive Cardiology	2	0	\$8,154	24.0	0.99	\$8,246	24.3	0.00%	15.89%	0.00%
	Hematology	4	1	\$7,697	18.5	0.93	\$8,274	19.9	25.00%	26.21%	29.52%
	Oncology	8	1	\$9,485	20.1	1.01	\$9,411	20.0	12.50%	29.54%	12.37%
	Neurological Surgery	2	0	\$12,869	28.5	0.99	\$13,014	28.8	0.00%	11.05%	0.00%
	Dermatology	9	2	\$10,998	24.6	1.15	\$9,600	21.4	22.22%	16.92%	30.97%
	Cardiothoracic Surgery	1	0	\$16,833	31.0	1.18	\$14,234	26.2	0.00%	19.81%	0.00%
	Thoracic Surgery	4	1	\$9,131	16.5	1.06	\$8,629	15.6	25.00%	9.69%	41.20%
	EP/Chronic Rhythm Mg...	3	0	\$8,694	18.0	1.02	\$8,551	17.7	0.00%	16.99%	0.00%
	Urological Surgery	3	0	\$11,553	28.3	1.03	\$11,268	27.6	0.00%	16.03%	0.00%
	Urology	4	0	\$9,191	19.8	1.06	\$8,693	18.7	0.00%	29.77%	0.00%
222409-Sweet Neches Properties, Ltd.	SNF Sub Total	362	117	\$11,537	37.7	1.02	\$11,283	36.9	32.32%	26.09%	27.10%
	Orthopedic Surgery	43	14	\$13,807	39.9	1.05	\$13,093	37.9	32.56%	18.39%	23.84%
	Infectious Disease	44	14	\$10,163	34.3	1.00	\$10,135	34.2	31.82%	30.07%	26.87%
	Cardiology	44	19	\$9,696	34.6	1.01	\$9,604	34.3	43.18%	28.98%	39.27%
	Neurology	31	3	\$12,626	42.0	1.06	\$11,915	39.6	9.68%	24.27%	7.17%
	General Medicine	29	8	\$12,571	32.9	1.05	\$11,923	31.2	27.59%	23.37%	24.76%
	Pulmonary	38	14	\$9,162	34.9	0.99	\$9,264	35.3	36.84%	31.02%	31.89%
	General Surgery	33	12	\$13,204	35.1	1.03	\$12,768	34.0	36.36%	24.11%	34.57%
	Gastroenterology	19	10	\$8,451	60.5	0.94	\$8,976	64.2	52.63%	32.62%	39.20%
	Nephrology	19	9	\$9,627	22.3	1.10	\$8,758	20.3	47.37%	26.45%	48.70%
	Orthopedics	14	1	\$17,758	57.0	0.98	\$18,108	58.1	7.14%	19.50%	5.87%

The unmasked report includes additional drill through capability to beneficiary details and monthly trend reports described below.

7.5.2.1 SNF Utilization Report: Drill Through Reports

Drill throughs are only available from the Unmasked version of the report. To access the drill throughs, hover over the SNF or Service Line selection, and select either ‘Beneficiary Details by Service Line’ or ‘SNF Utilization Trend By SNF Provider.’

222562-Fal-Corydon, Inc.	SNF Sub Total	56
480 items selected · SUM of ATTR(Field): 24		
222562-Fal-Corydon, Inc.		
Beneficiary Details by Service Line		
SNF Utilization Trend By SNF Provider		
Pulmonary		37

Cardiology	35	7	\$10,0
Neurology			5
General Medi			4
Pulmonary			4
General Surge			6
Gastroentero			8
Nephrology	19	8	\$10.3

## 7.5.2.1.1 Beneficiary Details by Service Line

This drill through report identifies each beneficiary that was admitted to the selected SNF with a preceding hospital admission in a given Service Line. The report provides each beneficiary's MBI, initial hospital admission date and APR DRG, date of SNF admission, SNF LOS, beneficiary's normalized RUG/PDPM rate relative to all of the hospital's attributed beneficiaries discharged to SNF within that Service Line, SNF paid amount, and APR DRG for any readmission to a hospital within 30 days of discharge from the hospital.

DRG Family filter selections from the parent report persist into this report such that you need to reset the DRG Family filter selection in the parent report to change Service Line filter selection(s) within Beneficiary Details by Service Line.

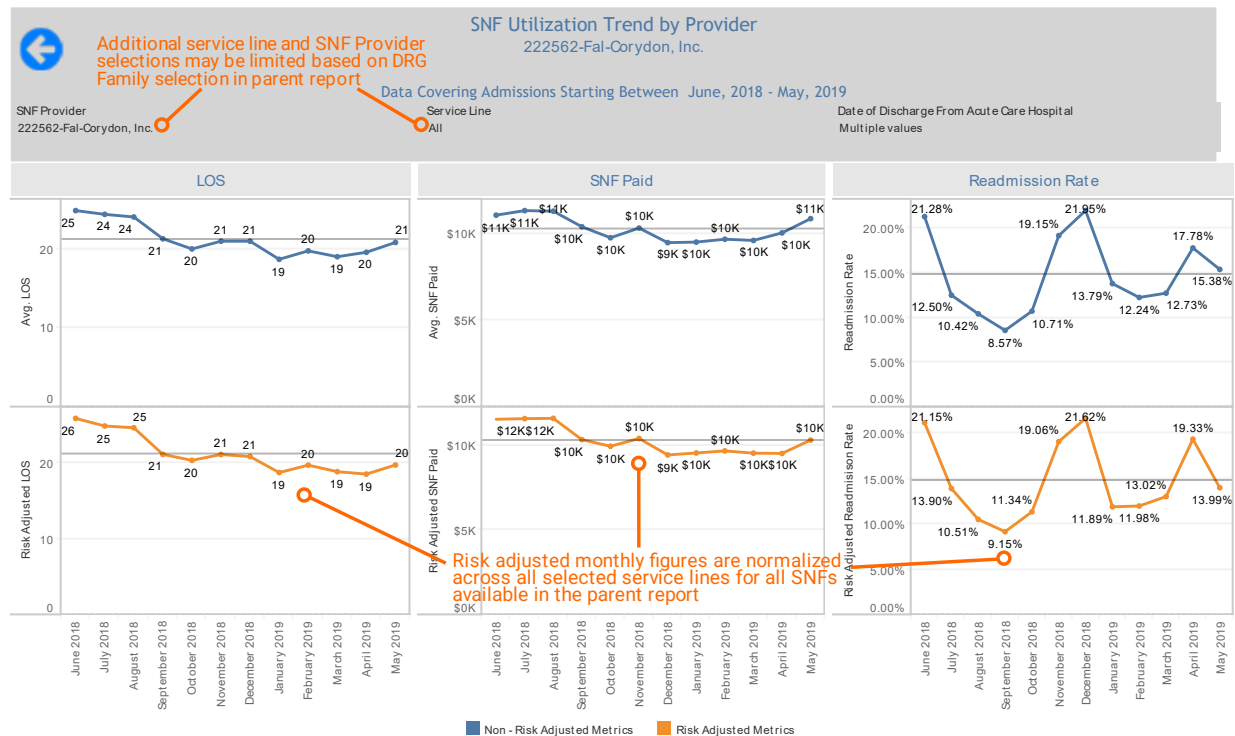
Beneficiary Details by Service Line 222562-Fal-Corydon, Inc.									
Data Covering Admissions Starting Between June, 2018 - April, 2019									
Beneficiary ID All		Service Line All							
		APR DRGs presented for any readmission to a STACH within 30 days of discharge from a STACH							
SNF Provider	Service Line	Beneficiary ID	Initial Hospital Admission Date	APR DRG	Date of SNF Admission	LOS	Normalized RUG/PDPM Rate	SNF Paid	APR DRG for Readmission from SNF within 30 days
222562-Fal-Corydon, Inc.	Cardiology	0J39SC7VM25	06/22/2018	194	06/28/2018	17	1.18	\$7,583	N/A
		0JD4HJ9LR67	12/06/2018	193	12/17/2018	9	1.18	\$5,411	288
		0OC1S17ML02	03/04/2019	194	03/12/2019	22	1.18	\$12,893	N/A
		0P29SS3NC16	09/26/2018	194	10/03/2018	19	1.18	\$11,424	N/A
		0T92C18BC83	01/28/2019	194	02/07/2019	21	0.99	\$10,390	N/A
		1G82O31ZG06	04/07/2019	194	04/10/2019	23	0.99	\$11,062	N/A
		1XL9OT3NI16	12/12/2018	190	12/19/2018	12	1.18	\$7,215	281
		2RU4X06VN05	10/22/2018	198	10/25/2018	22	0.99	\$11,520	N/A
		2VT4QN6LO91	03/04/2019	201	03/14/2019	22	0.99	\$10,726	N/A
		2X62NT6XP12	03/07/2019	194	03/11/2019	19	1.18	\$10,922	N/A
		2XU6T64FF60	06/20/2018	194	06/23/2018	76	1.01	\$18,706	291
		2Y60EA9X105	01/05/2019	201	01/09/2019	14	0.88	\$6,253	N/A

COLUMN NAME	DESCRIPTION
SNF Provider	The SNF provider following the hospital admission; SNF provider through which the user drilled to this report.
Service Line	One or multiple Service Lines from the preceding hospitalization; beneficiaries are nested within the report at the Service Line level.
Beneficiary ID	Medicare Beneficiary Identifier for each beneficiary discharged to SNF within a selected Service Line.
Initial Hospital Admission Date	Date of admission to the preceding hospital admission
APR DRG	The APR DRG of the preceding hospital admission
Date of SNF Admission	Date of admission to the SNF following the Initial hospital admission
LOS	Length of stay at the SNF
Normalized RUG/PDPM Rate	Per beneficiary RUG/PDPM rate for the SNF stay normalized to 1.0.
SNF Paid	Total CMS payment to the SNF for the stay.
APR DRG for Readmission from SNF within 30 days	The APR DRG for any readmission to an acute care hospital within 30 days of discharge from the initial hospital stay. If no readmission occurred, "N/A" is shown.

## 7.5.2.1.2 SNF Utilization Trend by Provider

This drill through report shows LOS, SNF payment, and readmission rates by SNF and Service Line by month. This report allows the user to filter on specific Service Lines, to select another or additional SNFs, and to adjust the time period displayed. By default, all Service Lines are displayed.

Results are presented by both observed (not risk-adjusted) and risk-adjusted metrics. The risk adjusted metrics in this report are based on all SNF utilization or by Service Line(s) among the hospital's selected attributed population.



## 8 HELP

### 8.1 Glossary

**Glossary** provides quick reference to the terms used in the CRISP CCLF application:

Term	Definition
<b>BETOS</b>	Berenson-Eggers Type of Service (BETOS) codes are a classification of CPT and HCPCS codes into broad categories of like services that allow for easy review and analysis of data.
<b>CCS Category</b>	The Clinical Classifications Software (CCS) is a diagnosis and procedure categorization system developed by AHRQ' HCUP project to aggregate diagnosis and procedure codes into a smaller number of clinically meaningful categories.
<b>Cluster</b>	Physicians are grouped into discrete groups based on similarity of practice patterns. Physicians with similar post-acute discharge patterns will appear in the same cluster, while physicians with dissimilar patterns will appear in different clusters. The comparison of utilization across these clusters allows for the calculation of potential savings opportunity.
<b>Community</b>	First post-acute setting defined by non-facility-based physician services.
<b>Copay</b>	The amount the patient pays for the prescription.
<b>DME</b>	Durable medical equipment; type of service
<b>Episode</b>	All health care services that occurred between the admission to the short term acute care hospital (index admission) and 90 days after discharge. Medicare payments for all services within this period are included in episode payments.
<b>ESRD</b>	End-Stage Renal Disease (ESRD). Patients with ESRD are eligible for Medicare coverage regardless of age.
<b>First Setting / First PAC / First Post-Acute Care</b>	The first facility or setting that the patient was discharged to and received care following the index admission. The post-discharge period could include visits/admissions to multiple acute and post-acute settings. The first PAC setting refers to the first setting.
<b>hAM</b>	hMetrix Advance Model; predictive model to identify high-needs patients based on historical care patterns and clinical characteristics
<b>HH / HHA</b>	Home Health Agency; first post-acute care setting and type of service
<b>High-Risk Medication</b>	Prescription drug identified on the American Geriatrics Society (AGS) Beers Criteria for Potentially Inappropriate Medication Use in Older Adults list. This list contains drugs that are best avoided in older adults and those with certain diseases or syndromes. Patients on these medications should be prescribed reduced doses or prescribed with caution and carefully monitored, as these medications have been found to be associated with poor health outcomes, including confusion, falls, and mortality.
<b>Hospice</b>	First post-acute care setting and type of service
<b>Index Admission</b>	The initiating admission at the short term acute care hospital. This is the event that begins the episode, also known as the anchor stay.

<b>Inpatient Hospital</b>	First post-acute care setting and type of service. Includes short term acute care hospital admissions.
<b>IRF</b>	Inpatient Rehabilitation Facility; first post-acute care setting and type of service
<b>LOS</b>	Length of stay, measured in days.
<b>LTCH</b>	Long-Term Care Hospital
<b>Master Patient ID</b>	Unique patient identifier internal to MADE. This ID does not correspond to internal hospital patient identifiers.
<b>Medical Paid (Current and Previous Year)</b>	Total Medicare payment for all Part A and B services, including payments for inpatient hospital, outpatient hospital, skilled nursing facilities, home health agencies, inpatient rehabilitation facilities, long term care hospitals, hospice, physician services, and durable medical equipment. Also includes a proxy for beneficiary cost-sharing for all sites of service. Prescription drug payments covered on Medicare Part D are excluded. Current year indicator refers to the most recent 12 months of completed data. Previous year indicator refers to the prior 12 months of completed data
<b>Medication Synchronization</b>	Process of a pharmacist coordinating the refill of a patient's prescriptions to allow for pick up on a single day each month. This process can increase patient compliance in taking their prescribed medications.
<b>Member Months</b>	The number of beneficiaries enrolled in Medicare Part A and Part B each month.
<b>Non-HMO</b>	Medicare beneficiaries enrolled in Part A and Part B. These are the non-Part C, or non-Medicare Advantage members.
<b>Observation Stay (&gt;23 hours)</b>	Outpatient claim with an NCH claim type code of 40 that occurred at a loaded hospital with HCPCP codes G0378, G0379, or with revenue center code 0760 or 0762. Additionally, within these claims, an indicator of hours (units) is used to determine those greater than 23 hours.
<b>OP Therapy</b>	Therapy services performed in the hospital outpatient setting.
<b>Other (Setting)</b>	As a first post-acute care setting, represents care provided in long-term care hospitals, other inpatient facilities such as psychiatric hospitals, DME, and hospice care.
<b>Other Facility Readmission</b>	A readmission to a short-term acute care hospital that is different from the index admission hospital.
<b>Outpatient</b>	Type of service; includes all Part B services provided in an outpatient hospital setting, including dialysis center.
<b>PAC</b>	Post-Acute Care including Home Health, Skilled Nursing Facilities, Inpatient Rehabilitation Facilities, Long-Term Care Hospital, and Hospice; as well as non-facility physician and hospital outpatient care, as well as DME, during the post-discharge period.
<b>Pharmacy Paid (Current and Previous Year)</b>	Total Medicare payment and proxy for beneficiary cost-sharing for Part D prescription drugs. Current year indicator refers to the most recent 12 months of completed data. Previous year indicator refers to the prior 12 months of completed data.
<b>Part A + Part B Members</b>	Traditional/Original Medicare beneficiaries. These beneficiaries are also known as fee-for-service (FFS) beneficiaries. This tool only reports on these Part A and Part B members.

<b>PAVE</b>	Post-Acute Variance Explorer (PAVE) Savings Opportunity. hMetrix's proprietary technology to cluster groups of physicians based on similar practice patterns. PAVE identifies the savings opportunity for each APR DRG if the average post-discharge payments related to each physician were replaced with the average in the highest performing cluster.
<b>PCR</b>	HEDIS® Plan All-Cause Readmission. The expected readmission rate component of this measure based on presence of surgery during the inpatient stay, discharge condition, and demographics is used in the risk adjustment calculations in the SNF Utilization Reports.
<b>PDC</b>	Proportion of Days Covered
<b>PDPM</b>	Patient Driven Payment Model; reflects the medical and therapeutic needs of a SNF patient. Used to risk-adjust LOS and SNF payment across SNFs and Service Lines.
<b>Physician</b>	Type of service; includes all physician Part B services regardless of site of service
<b>PMPM</b>	Per Member Per Month (PMPM) is a common measure for analyzing a population. This measure factors in the number of members as well as the time each member was enrolled (i.e., member months). The most common usage is for payments, where the PMPM measure is the average payments for a member over one month.
<b>Post-Discharge Episode</b>	The portion of the total episode immediately following the discharge from the index admission. This period lasts 90-days and includes all Medicare Part A and B services related to the episode.
<b>Proration</b>	Episodes are prorated; meaning any stay that spans the end date of the episode is prorated based on how many days of the stay are within the 90-day post-discharge period.
<b>RUG</b>	Resource Utilization Group; reflects the intensity of services provided in the SNF. Used to risk-adjust LOS and SNF payment across SNFs and Service Lines.
<b>Run Out</b>	Due to the way Home Health episodes are paid (60-day episodes), not all claims will necessarily be adjudicated by the end of the post-discharge period. For this reason, the application includes all episodes, regardless of whether data for all claims have been provided. The application then allows the user to select whether to include these incomplete episodes, or to exclude them from the analysis.
<b>Same Facility Readmission</b>	A readmission to a short-term acute care hospital that is the same as the index admission hospital.
<b>SNF</b>	Skilled Nursing Facility; first post-acute care setting and type of service
<b>STACH</b>	Short-Term Acute Care Hospital; first post-acute care setting. Represents a hospital readmission immediately following discharge from the index admission prior to the patient receiving any other health care services.
<b>Target Price</b>	This is the pre-determined benchmark amount that will be compared to your hospital's episode payment. The target price is calculated by averaging the top 25 <sup>th</sup> percentile of providers.
<b>Total Medication Cost / Cost</b>	The published Average Wholesale Price (AWP), a proxy for the price paid for the prescription by a third-party payor.
<b>Winsorization</b>	Winsorization is the statistical process of replacing extreme data values or potential outliers with less extreme values to limit the impact of these

values on analysis. For example, winsorization of paid amounts removes the impact of extremely expensive episodes and the potential skew it may introduce on a performance metric. The less extreme values or trim points or upper and lower bounds are set to the mean  $\pm$  3 standard deviations of the normalized paid amount by DRG. Each episode's costs are truncated at the upper and lower bounds.

## 8.2 CCLF Data Basics

### 8.2.1 CCLF

The CCLF (Claim and Claim Line Feed) data files are a set of Medicare claims files incorporating all Medicare Part A and B claims from Inpatient Facility, Outpatient Facility, Skilled Nursing Facility, Home Health Agency, Hospice, Professional, Durable Medical Equipment, and Prescription Drug services. These files contain beneficiary claim level data including Medicare payment amounts, diagnoses, procedures, dates of service, provider identifiers, and beneficiary copayment amounts. Provider cost information is not included in the data. Drugs paid for under Part A or Part B (such as drugs administered in the hospital) are included in MADE. Part D drugs are only available for the Population Navigator and Pharmacy Analytics module.

The CCLF also includes information regarding beneficiary's Medicare eligibility, such as the reason for Medicare eligibility (aged, disabled, ESRD), entitlement status, and months of eligibility for all Medicare beneficiaries enrolled during the year of the data set. These data sets contain a unique identifier for each beneficiary, allowing the linkage of beneficiary claims across the various claims files.

The CCLF data files only contain Medicare fee-for-service (FFS) claims (Part A and Part B) and does not contain any claims for beneficiaries enrolled in Medicare Advantage (Part C) or non-Medicare (private) insurance plans.

MADE is powered by the latest 36 months of data for 100% of the Maryland Medicare fee for service beneficiaries.<sup>1</sup> The CCLF includes any beneficiary with a Part A or Part B claim from a Maryland provider, regardless of the beneficiary's residency at the time of the claim. Additionally, recent enhancements now result in the Beneficiary Denominator file containing all beneficiaries who have lived in Maryland for at least one month and have at least one month without HMO during the 36-month period. This allows CCLF to represent the universe of Medicare fee for service beneficiaries, regardless of health care usage.

Use of this data is governed by a Data Use Agreement (DUA) from the Centers for Medicare & Medicaid Services (CMS) between CMS and CRISP. Using the beneficiary's unique identifier, all health care information is tracked across the available data. This allows for the analysis of episodes of care at the beneficiary level as well as analysis across the entire population.

---

<sup>1</sup> Due to CMS lags in claim processing, the latest three months of the data are incomplete.



## 8.2.2 Population Assignment

MADE contains approaches for attributing beneficiaries to Maryland hospitals: Hospital “Touch” Attribution, MPA Performance Year 5 Attribution, and through attested CCAs with providers that have a treatment relationship with a beneficiary. These approaches can be used separately or together to further filter the attributed beneficiaries.

### 8.2.2.1 Hospital “Touch” Attribution

Each beneficiary in the Population Analytics module implemented for CRISP is assigned to one or more hospitals. Non-Maryland residents who receive care in a Maryland hospital are included in the “touch” attribution logic. The following is a brief description of the method used to assign beneficiaries:

1. The hospitals to which beneficiaries are assigned are limited to the 47 CRISP hospitals.
2. Beneficiaries must be enrolled in Part A and Part B (no Medicare Advantage beneficiaries).
3. All beneficiaries with a **touch (either inpatient claim – IP or inpatient claim or emergency department visit - IP+ED)** will be assigned to every hospital with a touch.

Users can select which attribution type to apply to reports in the top right of the Population, Episode, Pharmacy, and Monitoring tabs.

### 8.2.2.2 MPA Year 5 Attribution

Beneficiaries attributed to a hospital under the Medicare Performance Adjustment (MPA) policy are available in MADE.

1. Geographic – Beneficiary is attributed to a hospital based on the hospital’s Primary Service Area (PSA) or by the PSA Plus (PSAP) methodology when PSAs overlap for multiple hospitals. Only beneficiaries attributed under MPA by geography with a “touch” at the hospital are visible in the application.
2. Academic – Beneficiary is attributed to an AMC via a touch and a CMI  $\geq 1.5$ .

In addition to the MPA Attribution Types being selectable in the top right of MADE, additional MPA information is presented at the beneficiary level in the following Population Navigator columns:

- “MPA Attribution” indicates the MPA attribution category in which the beneficiary is attributed to the hospital. This field is only populated for MPA attributed beneficiaries to the selected hospital. Blank cells indicate that the beneficiary is **not** MPA attributed to the selected hospital. Blank cells will occur for beneficiaries who have touched the selected hospital or are available through an attested CCA but are not MPA attributed there.
- “MPA Attributed Hospital” indicates the hospital to which the beneficiary is attributed. The MPA attributed hospital is identified for all MPA-attributed beneficiaries, regardless of the hospital selected. Beneficiaries may be attributed to more than one hospital. In these instances, the field will show “multiple” hospitals. As not all beneficiaries in MADE are attributed to a hospital, this field may remain blank for some “touch” attributed beneficiaries.

---

## MPA “NEUTRALIZED” CLAIM PAYMENT AMOUNTS

---

Hospital Inpatient and outpatient claim payments in 2022 (i.e. claims with through dates in CY2022) have been adjusted, by hospital, to remove the effective MPA reward or penalty percentage that has been applied by CMS for the specific claim. This neutralized payment is presented for all claims data presented in MADE as well as all other CCLF-based reports in CRISP Reporting Services.

### 8.2.3 Physician Assignment in Episodes

Each episode in the Episode Analytics module implemented for CRISP is assigned to a physician. The assigned physician is the physician most responsible for the index hospitalization that initiates the episode. The assignment is based on two physicians identified on each inpatient hospital claims: the attending physician and the operating physician.

If the index hospitalization is a surgical discharge, the episode is assigned to the **operating physician** or surgeon. If the operating physician is not recorded on the claim, the **attending physician** is assigned.

All remaining episodes (i.e., a medical discharge) are assigned to the attending physician.

### 8.2.4 Episode

Episodes are clustered into APR DRG “families” using a two-step process. First, according to Maryland’s Care Redesign Program for Episode Care Improvement Program (ECIP), clinical episode categories were developed based on CMS’ Center for Medicare and Medicaid Innovation (CMMI) Bundled Payment for Care Improvement (BPCI) Advanced initiative. These clinical episode categories are equivalent to a subset of the APR DRG families presented in MADE. Next, an expanded set of APR DRG families are created based on the clinical episode categories from the initial Bundled Payment for Care Improvement (BPCI) initiative. Clinical conditions that are associated with neither BPCI nor BPCI Advanced are not included in MADE. The source definitions for all clinical episodes are based on MS-DRG. MS-DRGs are converted into APR DRG version 35. In doing so, some distinct episode categories in BPCI or BPCI Advanced are consolidated. See [APR DRG Family](#) for a complete list.

Individual episodes are initiated by the inpatient admission of an eligible Medicare FFS beneficiary to an acute care hospital for one of the included APR DRGs. The episode includes a Medicare beneficiary’s inpatient stay in the acute care hospital, post-acute care, and all related services during the episode of care, which ends 90 days after hospital discharge. Episodes include all related Parts A and B services provided during the duration of an episode including hospital care, physician care, readmissions, post-acute care and durable medical equipment. Episodes exclude Part B services that CMS has determined are unrelated to the index admission including transplantation, trauma services, acute surgical procedures and cancer care.

The episode consists of two main segments:

- Index admission – The period of time between the admission date and the discharge date of an episode-initiating inpatient hospital stay for a participant

- Post-Discharge Episode Period – The period of time covering 90 days from the discharge date of an index admission, as defined by the participant for a given episode type (beginning the same day as the index admission's discharge date).

Note that any APR DRG Families described in **APR DRG Family** that have no data for a user's hospital will not appear in the selection menus.

APR DRG FAMILY	APR DRGS
<b>ECIP Clinical Episode Categories</b>	
Acute myocardial infarction	190
Back and neck except spinal fusion	310
Cardiac arrhythmia	201
Cardiac Valve	160, 162, 163
Cellulitis	383
Cervical spinal fusion & Combined anterior posterior spinal fusion & Spinal fusion (non-Cervical)	304, 321
Chronic obstructive pulmonary disease, bronchitis/asthma	140, 141, 145
Congestive heart failure	194
Coronary artery bypass graft surgery	165, 166
Double joint replacement of the lower extremity & Major joint replacement of the lower extremity	301, 302
Fractures femur and hip/pelvis	340, 341
Gastrointestinal hemorrhage	241, 244, 253, 254
Gastrointestinal obstruction	247
Hip and femur procedures except major joint	308, 309
Lower extremity and humerus procedure except hip, foot, femur & Major joint replacement of upper extremity	313, 315, 322
Major bowel procedure	230, 231
Pacemaker	170, 171
Percutaneous coronary intervention	174, 175
Renal failure	469, 470
Sepsis	720, 724
Simple pneumonia and respiratory infections	131, 137, 139
Stroke	044, 045
Urinary tract infection	463
<b>Other Clinical Episode Categories</b>	
AICD generator or lead & Pacemaker device replacement or revision	176, 177
Atherosclerosis & Chest pain	198, 203
Amputation	305, 314
Cardiac defibrillator	161
Diabetes	420

Disorders of liver except malignancy, cirrhosis or alcoholic hepatitis	279
Medical non-infectious orthopedic	342, 347, 349, 351
Nutritional and metabolic disorders	421, 422, 425, 426
Other vascular surgery, Medical peripheral vascular disorders	181,182,197
Red Blood Cell Disorder	662, 663
Syncope & Collapse	204
Transient Ischemia	047

### 8.2.5 Readmission and Transfer

A readmission is defined as an admission to a short-term acute care facility that occurs shortly after a discharge from the same or a different short-term acute care facility. Most often, it is measured as within 30 days after the initial discharge, but it could be shorter or longer. Such readmissions are often, but not always, related to a problem inadequately resolved in the prior hospitalization.

Readmissions in MADE can only occur following a discharge from an acute care hospital with a subsequent admission to the same or other acute care hospital within the measured period. The logic to identify a readmission within MADE does not vary other than the time period during which they are counted (30 or 90 days, depending on the report).

In order to be counted as a readmission, the readmission must not be planned. Generally, planned readmissions are limited to:

1. Specific types of care that are always considered planned (transplant surgery, maintenance chemotherapy/immunotherapy, rehabilitation);
2. A non-acute readmission for a scheduled procedure.

In order for a hospitalization to be eligible for a readmission, the index admission must:

1. Not be for rehabilitation;
2. Not be for a number of psychiatric disorders, according to CCS Diagnosis category.

In the often cited 30-day readmission rate, transfers from one short-term acute care facility directly to another short-term acute care facility are excluded. In MADE, transfers are defined according to the CRISP Standard Acute-to-Acute Transfer logic as an admission to an acute care hospital on either the same or next day following discharge from an acute care hospital. Of note, in the event of a transfer, the admission at the hospital to which the beneficiary is transferred is eligible for a readmission but not the admission at the transferring hospital.

In the Episode Module, it is also important to note that readmissions are being reported throughout the entire 90-day episode but are presented in the context of the first post-acute care settings. Therefore, a readmission that occurs after discharge from the first post-acute care setting is still attributed to that first setting.

## 8.2.6 Care Setting Abbreviations

CARE SETTING	LONG DESCRIPTION	SHORT DESCRIPTION	ABBREVIATIONS	PAC SEQUENCE OF CARE	PATIENT DETAILS - SEQUENCE	PATIENT DETAILS - PIE
STACH	Acute Care Hospital	ACH	A	X	X	X
IRF	Inpatient Rehab Facility	IRF	I	X	X	X
SNF	Skilled Nursing Facility	SNF	S	X	X	X
HH	Home Health Agency	HHA	H	X	X	X
Physician	Ambulatory Care	Ambulatory Care	C	X	X	X
Outpatient	Ambulatory Care	Ambulatory Care	C	X	X	X
OP Therapy	Ambulatory Care	Ambulatory Care	C	X	X	X
ER	Emergency Room	ER	E	X	X	X
DME	Durable Medical Equipment	DME	----- (Not Presented) -----			"Other"
LTCH	Long Term Care Hospital	LTCH	L	X	X	"Other"
Other IP	Inpatient Other	Inpatient Other	Z	X	X	"Other"
Hospice	Hospice	Hospice	T	X	X	"Other"

“Ambulatory” includes care received while the patient resides in the community; including physicians, outpatient hospitals, clinics, ASC, IDTF, dialysis centers, chemotherapy treatment centers, occupational therapy, physician therapy, and speech therapy. DME will not appear as a sequence and is grouped in “Other” in the Details report Pie chart.

## 8.2.7 Cost Adjustment Factors

Relative costs are used to normalize the data before computing the target price and to convert the target price back for each hospital. The following steps describe the method used to calculate the cost adjustment factors that are used to determine relative costs:

1. Compute the average payment per discharge for each hospital (and in total) based on the CCLF data for each hospital.
2. Calculate the case mix index (CMI) for each hospital (and in total). The case mix index is the average APR DRG weight per discharge. hMetrix is using APR DRG version 35.
3. Divide the average payment per discharge by the case mix index.
4. This CMI adjusted average payment per discharge for each hospital is divided by the CMI adjusted average payment per discharge for all hospitals. This calculation gives the relative cost for each hospital.

To ensure that these relative costs are reasonable estimates, they were compared to the Resumption of Care (ROC) numbers. These costs are based on the Maryland data and, hence, implicitly include variation in cost due to factors other than unit cost at hospitals. It will not reduce variances in index hospitalization costs which is what is required for this adjustment. It highlights the post-acute care variances.

### 8.2.8 Target Price

Each episode in the Episode Analytics module is based on an APR DRG. The episodes are defined using the method developed under the CMS CMMI BPCI program. The following is a brief description of the method used to calculate the benchmark for each APR DRG.

Each APR DRG episode will have a single benchmark for each year. The benchmark will be adjusted using hospital specific cost adjustment factors to come up with hospital specific benchmark.

Steps:

1. Restrict episodes to the ones initiated (index admission) by the 47 CRISP providers.
2. The allowed payment amount from the claims data will be normalized as follows:
  - a. Inpatient and outpatient claims are adjusted using the hospital specific cost adjustment factor.
  - b. For all other claim types, the wage factors for the Index admission provider will be used to normalize the allowed amount from the claims data.
3. The normalized amounts will be summarized by episode to compute the episode amount.
4. Outliers will be winsorized at the 5th and 95th percentile values of the normalized episode amount for each APR DRG.
5. APR DRGs will be grouped into APR DRG Families using the logic used by the CMS CMMI BPCI program.
6. The provider level average normalized episode amount for each APR DRG family is then calculated using the winsorized data.
7. Low volume providers with fewer than five episodes in each APR DRG family will be removed from each APR DRG Family.
8. After removing the low volume providers, the 25<sup>th</sup> percentile of the provider level average, normalized episode amount is then calculated. This is used to identify the top 25% of providers in each APR DRG family.
9. The APR DRG family benchmark is the mean of the top 25% of providers in each APR DRG family.
10. The hospital benchmark will be computed from the state-wide benchmark by adjusting the normalized benchmark using the cost adjustment factor and wage adjustment factor in the proportion of inpatient and outpatient amounts vs all other amounts for each APR DRG family.
11. The annual trend on case mix adjusted overall average normalized dollars will be used to compute the benchmark for each year.

### 8.2.9 hMetrix Advanced Model (hAM)

CCIP incentive opportunity development relies on a predictive modeling tool. The predictive model, the hMetrix Advanced Model (hAM), was custom built by CRISP's data vendor partner, hMetrix. The model was built using state-of-the-art modeling techniques based upon a machine learning ensemble algorithm. Ensemble algorithms create multiple models and evaluate the results ('learning' from the results of each). The ensemble algorithm then combines the methods to produce more accurate solutions.

The model predicts the impactable utilization for the next 12 months for each Medicare Part A and Part B member in Maryland.

### Data for Machine Learning Ensemble Algorithm

The model was built based on Maryland Medicare CCLF data 2014-2016.

### Predictive Variables

The model incorporates data available in Medicare Part A and Part B claims as predictive variables to develop utilization flags and identify impactable costs and total costs. By design, machine learning ensemble algorithms create, test, and learn by employing the range of variables available to the model. hAM found that the predictive variables with the greatest influence include both clinical and utilization values such as:

- Diagnoses
- Procedures
- Revenue centers
- Places of service
- Physician specialties
- Inpatient admission count
- Inpatient length of stay
- Emergency department visit counts
- Clinical severity measures derived from HCCs

### Model Training

The model was tested using standard industry methods for training predictive models. To greatly reduce the chance of overfitting the model, the members were randomly assigned to be in either the test group (20%) or the training group (80%). The training group was used in the formation of the model, while the test group was used to test the performance of the model. Put another way, the performance of this model would be computed using members who were not used in the formation of the model. This means the performance of the model cannot be attributed to an overfit model.

### Model Evaluation

Model results were compared to the Medicare HCC, Elixhauser, LACE, and “3 or more bedded visits” models on the same population. hAM outperformed the existing models’ positive predicted value by nearly 50%.

### hAM in MADE

The model’s risk score is presented in Population Navigator as a selectable column. Of note is that the risk score is only calculated for beneficiaries that have not expired and are enrolled in Medicare FFS as of the most recent monthly data refresh. Otherwise stated, expired beneficiaries or those not enrolled in Medicare will not display a hAM score.