



MDPCP: Prediction Tools

Report Use and Features

v. 11 rev. 5/12/23

Prediction Tools

- 3 Predictive Models:
 - Avoidable Hospital Events (Pre-AH)
 - Severe Diabetes Complications (Pre-DC)
 - Hospice Eligibility and Advanced Care Planning (Pre-HE)
- Models are updated monthly with the release of updated CCLF
- Score can be used by practices to identify beneficiaries with the highest risk of these events, allowing practices to target their care management and interventions

Avoidable Hospital Events (Pre-AH™)

- Shows the ranked order (score) that a beneficiary will experience an avoidable hospital event (inpatient or emergency room stay) within the next 30 days
- Based on The Hilltop Institute's Prevent-Avoidable Hospital Events tool (Pre-AH Model™)
 - Model uses socio-demographic, biologic/diagnostic, and health care utilization-related data elements from the CCLF data

Severe Diabetes Complications (Pre-DC™)

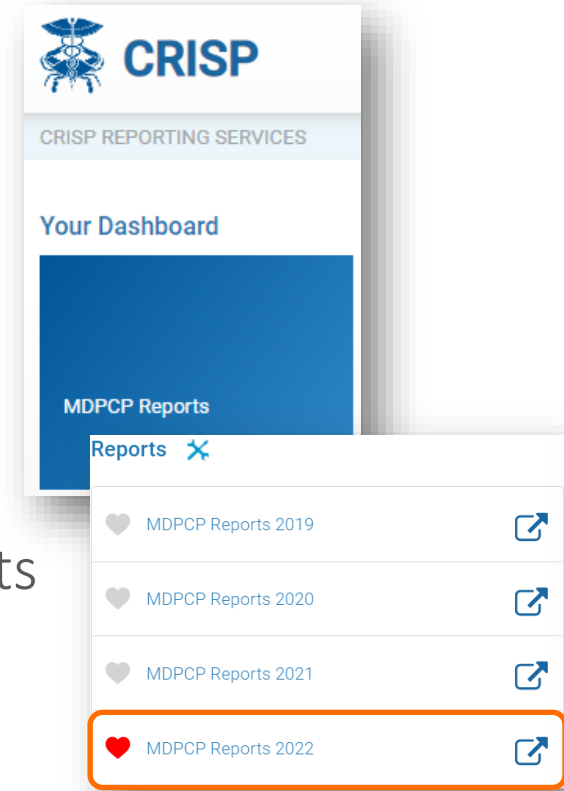
- Shows the ranked order (score) that a beneficiary will experience an inpatient hospitalization or ED visit due to severe complications of type-2 diabetes in the next 30 days
- Based on The Hilltop Institute's Prevent-Severe Diabetes Complications tool (Pre-DC Model™)
 - Model uses the same socio-demographic, biologic/diagnostic, and health care utilization-related data elements from the CCLF data as Pre-AH™ *plus* 18 additional factors specific to the Pre-DC Model™

Hospice/End of Life (Pre-HE™)

- Predicts the ranked order (score) for hospice eligibility
- Based on The Hilltop Institute's Hospice Eligibility and Advanced Care Planning (Pre-HE Model™)
 - Model uses the same socio-demographic, biologic/diagnostic, and health care utilization-related data elements from the CCLF data as Pre-AH™ *plus* 18 additional factors specific to the Pre-HE Model™

Getting Started

- MDPCP is accessible through a modern browser.
 - Google Chrome 59 or higher
 - Internet Explorer 11 or higher
 - Firefox 52 or higher
- Access the MDPCP card from the CRS Reports Portal
 - <https://reports.crisphealth.org/>

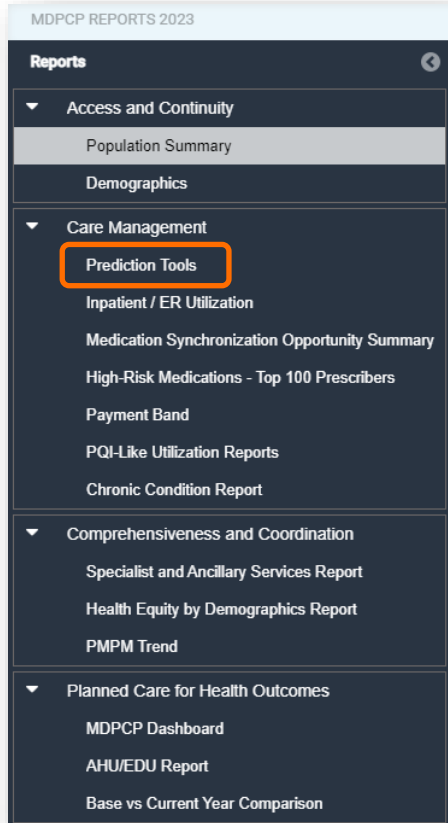


MDPCP Reports: Global Filters

- Make selections using filters to modify data shown in the report
 - Any selection will carry across all reports until changed
 - Having selected a value(s), click the ‘Apply’ button to update the report
- Use the “Help” section to access the MDPCP User Guide and to view technical specifications on the Prediction Tools

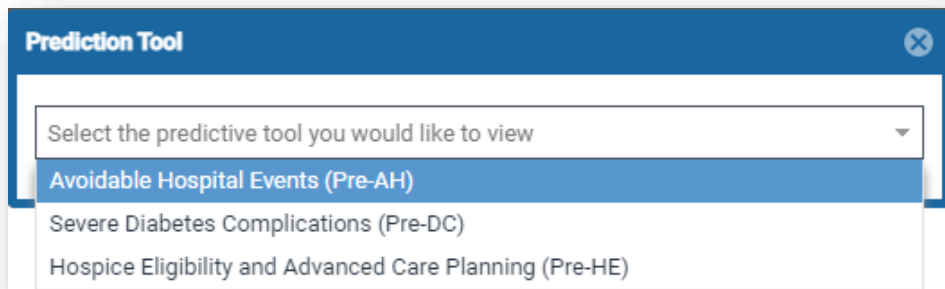
The screenshot displays the MDPCP Reports Global Filters interface. It features several filter sections: CTO Filter (set to CTO - BUJ76472), Practice Filter (set to All (2); PRACTICE_NAME1; PRACTICE), HCC Tier Filter (set to All; Tier 1; Tier 2), and Attribution Quarter (set to 2019-Q3). A blue 'Apply' button is located to the right of the Attribution Quarter filter. Above the filters, there is a navigation bar with a 'Help' icon and a 'Log Out' button. The navigation bar also includes the text 'User Guide and Pre-AH Technical Specifications' and 'Connecting Providers with Technology to Improve Patient Care'. The hMetrix logo is visible in the bottom left corner.

Navigating to Prediction Tools



- Navigate directly to Prediction Tools from any other MDPCP report using the collapsible menu located on the left of the interface

Entering the Report



- Select the model to view
- Users can select another model after loading into the report

Prediction Tools

The screenshot shows the Prediction Tools interface. At the top, there are buttons for Revert, Pause, Print, and Excel. The main title is "Prediction Tools". On the left, it says "Claims available through 8/31/2022". Below that, there are fields for "Practice:" and "CTO:". A "Risk Score Key" is provided on the right, with color-coded boxes: red for Top 1st Percentile, orange for Between 2nd and 5th Percentile, blue for Between 6th and 10th Percentile, purple for Between 11th and 20th Percentile, and grey for Between 21st and 100th Percentile. A note states: "The percentiles are determined at a single practice-level and do not vary when selecting more than one practice or sub-populations within a practice".

Annotations include:

- "Select Risk Model" pointing to a dropdown menu with "Avoidable Hospital Events (Pre-AH)" selected.
- "Search by Name or MBI" pointing to a search box with "Search By Beneficiary ID" selected.
- "Export to Excel to filter on demographics" pointing to the "Excel" button.

The table below shows beneficiary data with columns: MBI, Beneficiary Name, Gender, DOB, Age, Medicare Status, Dual Status, Zip+4, ADI, PracticelD, HCC Tier, COVID-19 Vulnerability Index *, Prediction Score, and Claim Payment Amount. The table is partially obscured by a grey redaction box.

MBI	Beneficiary Name	Gender	DOB	Age	Medicare Status	Dual Status	Zip+4	ADI	PracticelD	HCC Tier	COVID-19 Vulnerability Index *	Prediction Score	Claim Payment Amount
										Complex		65.27%	\$127,982
										Complex		16.49%	\$187,995
										Complex		14.16%	\$200,857
										Complex 5		13.73%	\$137,582
										Tier 4		12.97%	\$110,204
										Complex 5		12.96%	\$174,437

Export the report to Excel to:

- Further filter or analyze the distribution of risk within your practice by beneficiary demographic characteristic
- Review the list with your care team and target individuals appropriate for care management

- Search for beneficiaries by name or MBI

Prediction Tools

- Conditional color formatting identifies the percentile range for the select model's score *within a given practice*
 - Percentiles are calculated determined at a single practice-level and do not vary when selecting more than one practice or sub-populations within a practice
 - The risk score that corresponds with each percentile risk band will differ by practice. When multiple practices are selected, these inconsistencies may be noticeable.
- Report is defaulted to sort beneficiaries in descending order by Prediction Score

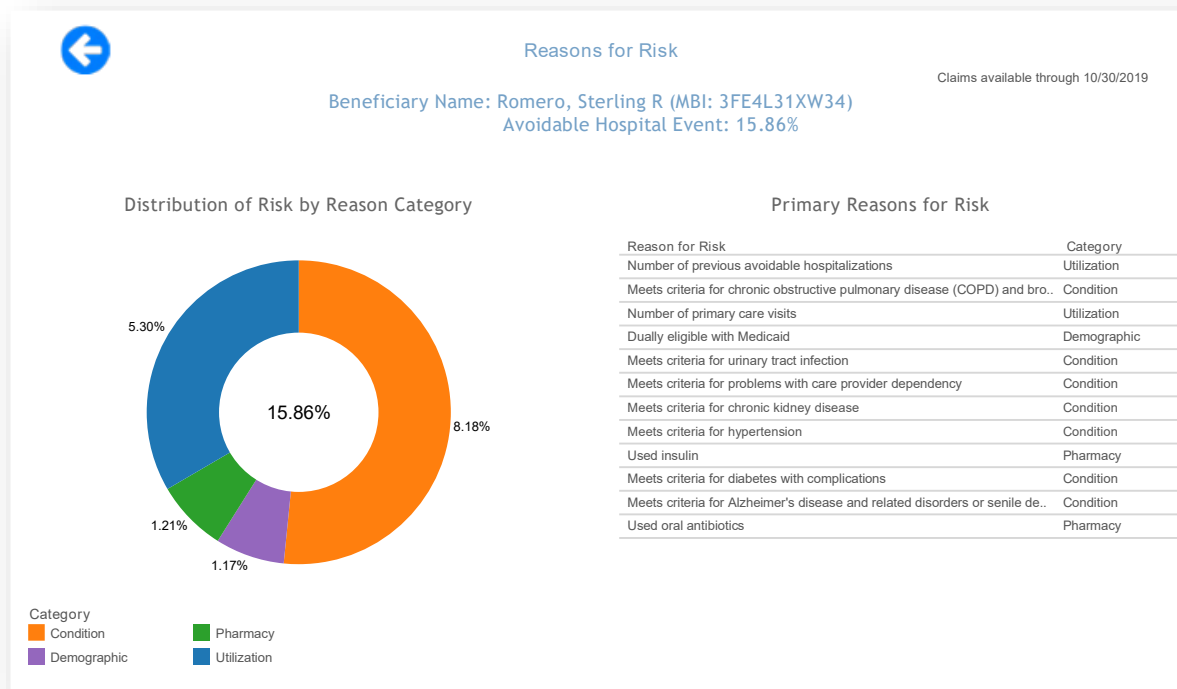
Prediction Score Key

■	Top 1st Percentile
■	Between 2nd and 5th Percentile
■	Between 6th and 10th Percentile
■	Between 11th and 20th Percentile
■	Between 21st and 100th Percentile

Prediction Score	Claim Payment Amount
63.95%	\$110,204
60.37%	\$127,282
59.55%	\$137,582
48.63%	\$211,941
45.14%	\$110,540

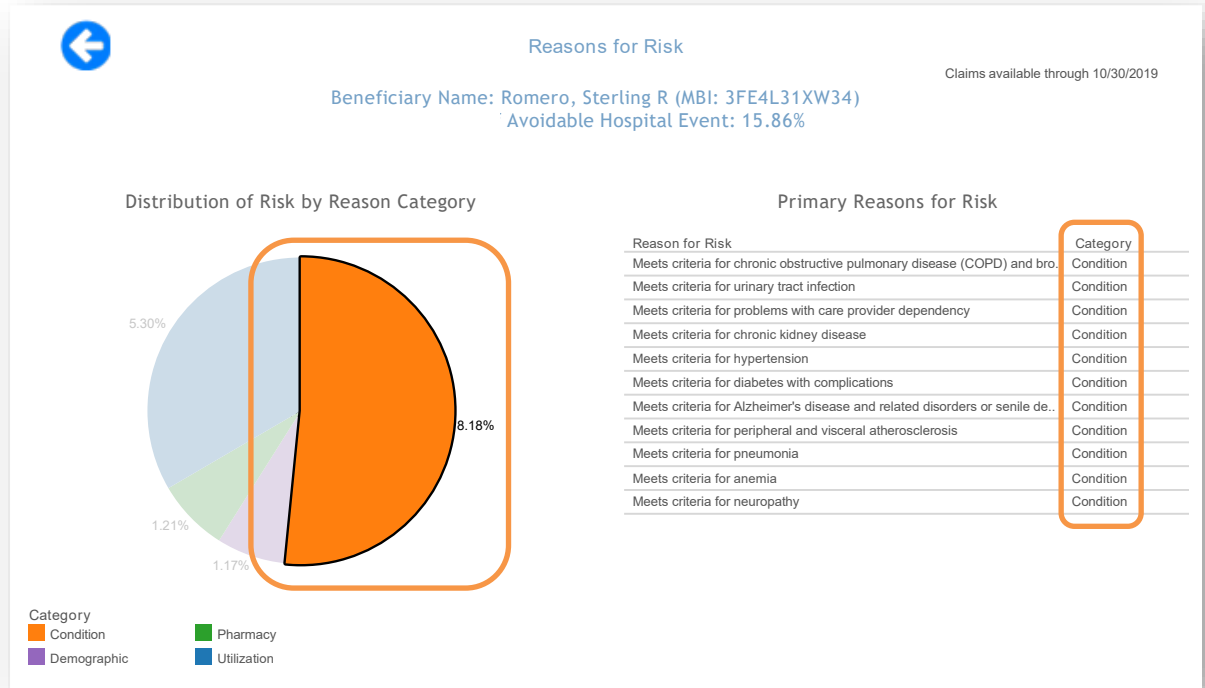
Reasons for Risk

- Drill through from Prediction Tools
- View top contributing factors to a beneficiary's risk score
 - Reasons for Risk are presented in four meaningful categories:
 - Utilization
 - Condition
 - Demographics
 - Pharmacy
- Specific to each model



Reasons for Risk

- Selecting a category from the donut chart refreshes the table to show the top reasons within the selected category



Reasons for Risk: Export to Excel

- Users may export the data underlying the **Distribution of Risk by Reason Category** chart and **Primary Reasons for Risk** tables
- Exports are available for the beneficiary presented and for *all* beneficiaries for the selected practice(s)
 - *n.b.* To export for all beneficiaries, the user must first navigate to the Reasons for Risk report for an individual then select “All Beneficiaries” when exporting
- The exported Excel file contains three sheets (see table)



SHEET NAME	DESCRIPTION
Summary	Corresponds to the “Distribution of Risk by Reason Category” (doughnut) chart in the Reasons for Risk report and includes the AH Score and relative contributions by category.
Report	Corresponds to the “Primary Reasons for Risk” table in the report and includes the AH Score with the relative contribution of each reason for risk.
About	Audit information regarding the selected practice(s), CTO, selected attribution quarter, selected HCC Tier(s), export date and username.