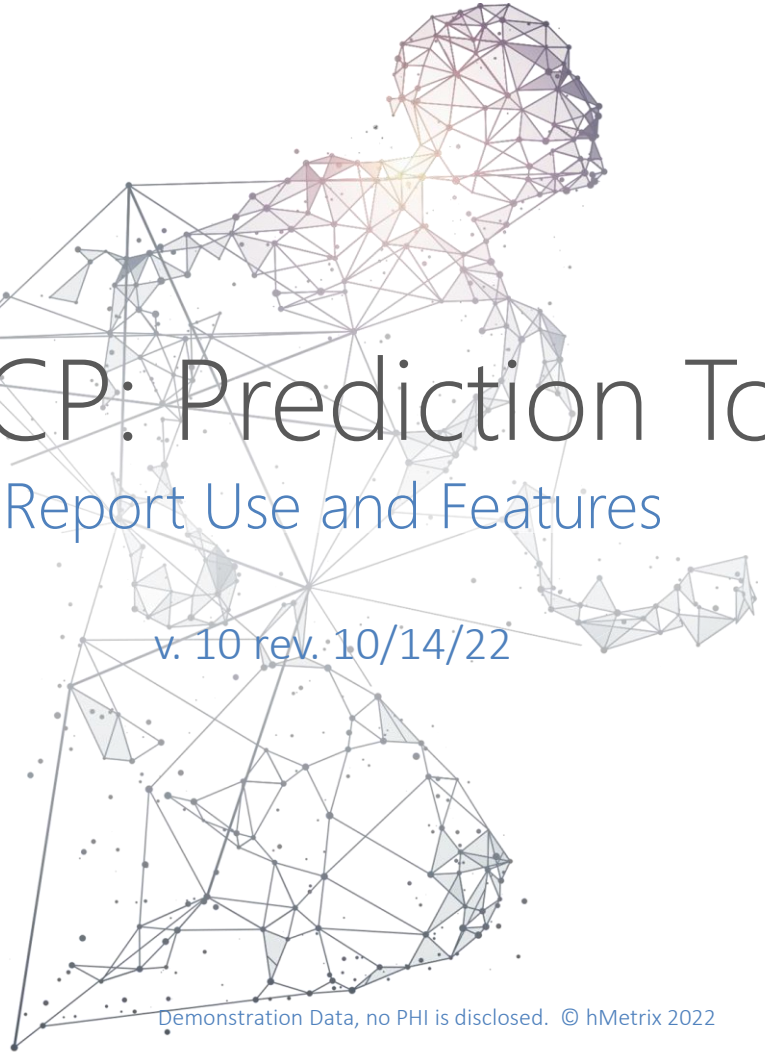

MDPCP: Prediction Tools

Report Use and Features

v. 10 rev. 10/14/22

hMetrix

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Prediction Tools

- 3 Predictive Models:
  - Avoidable Hospital Events (Pre-AH)
  - Severe Diabetes Complications (Pre-DC)
  - Hospice/End of Life Care (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

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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

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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™

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Hospice/End of Life (Pre-HE™)

- Predicts the ranked order (score) for all cause mortality within six months
- Based on The Hilltop Institute's Hospice/End of Life tool (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™

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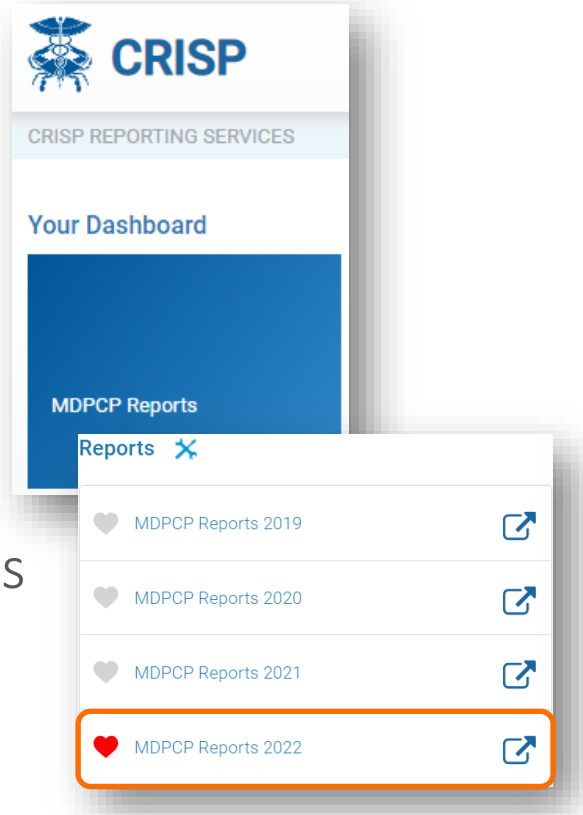
Getting Started

- 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/



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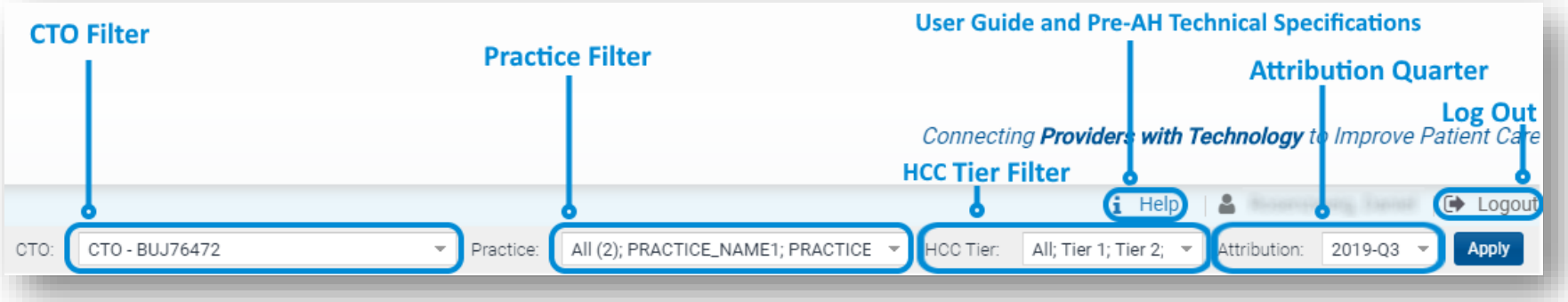
MDPCP Reports: Global Filters

- 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



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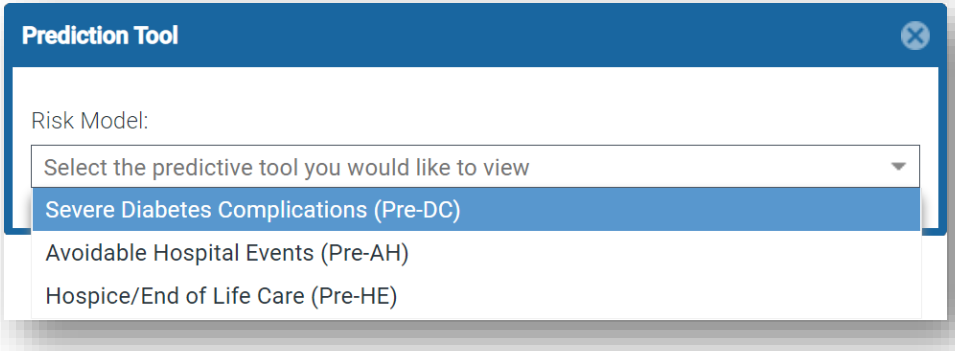
Navigating to Prediction Tools

- 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

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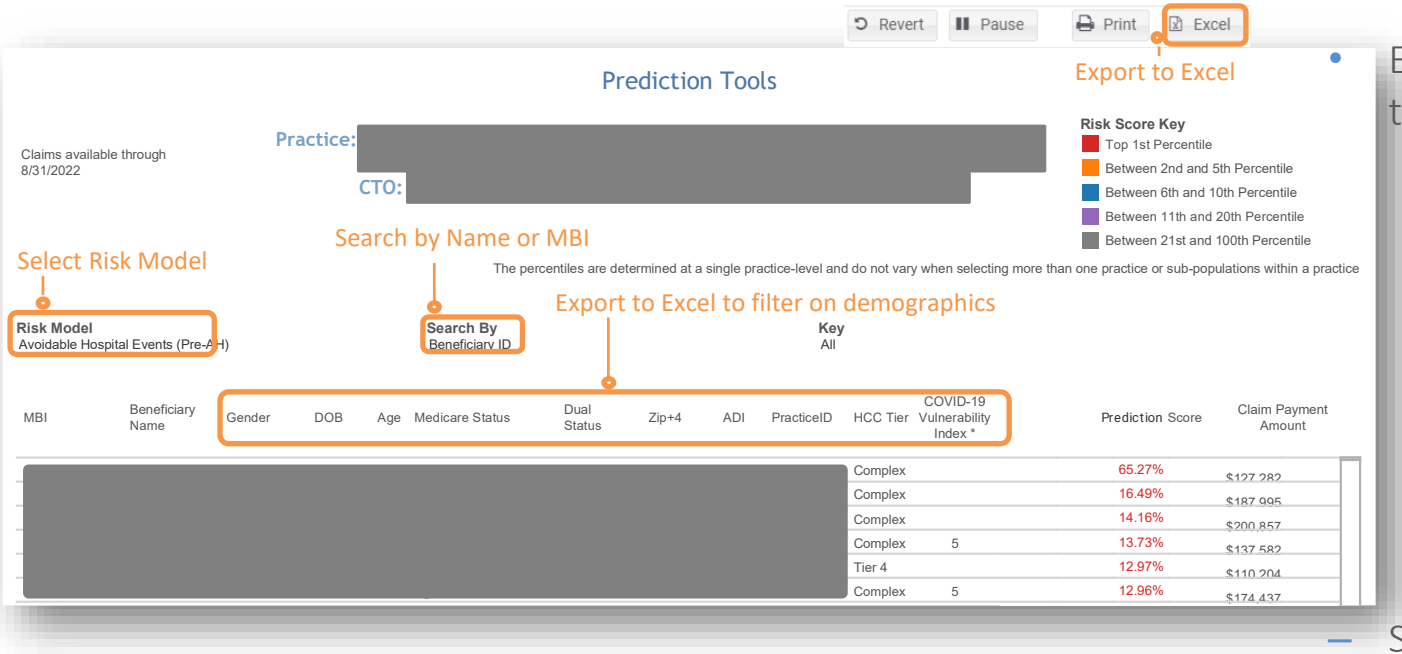
Prediction Tools



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

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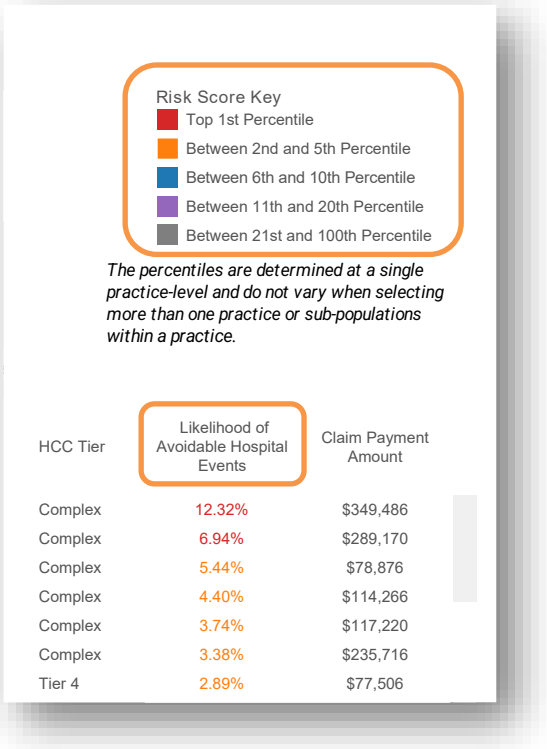
Prediction Tools

- Conditional color formatting identifies the percentile range for the select model's score ***within a given practice***
  - Percentiles are calculated within a single practice and not recalibrated when multiple practices or sub-populations are selected
    - 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 risk score



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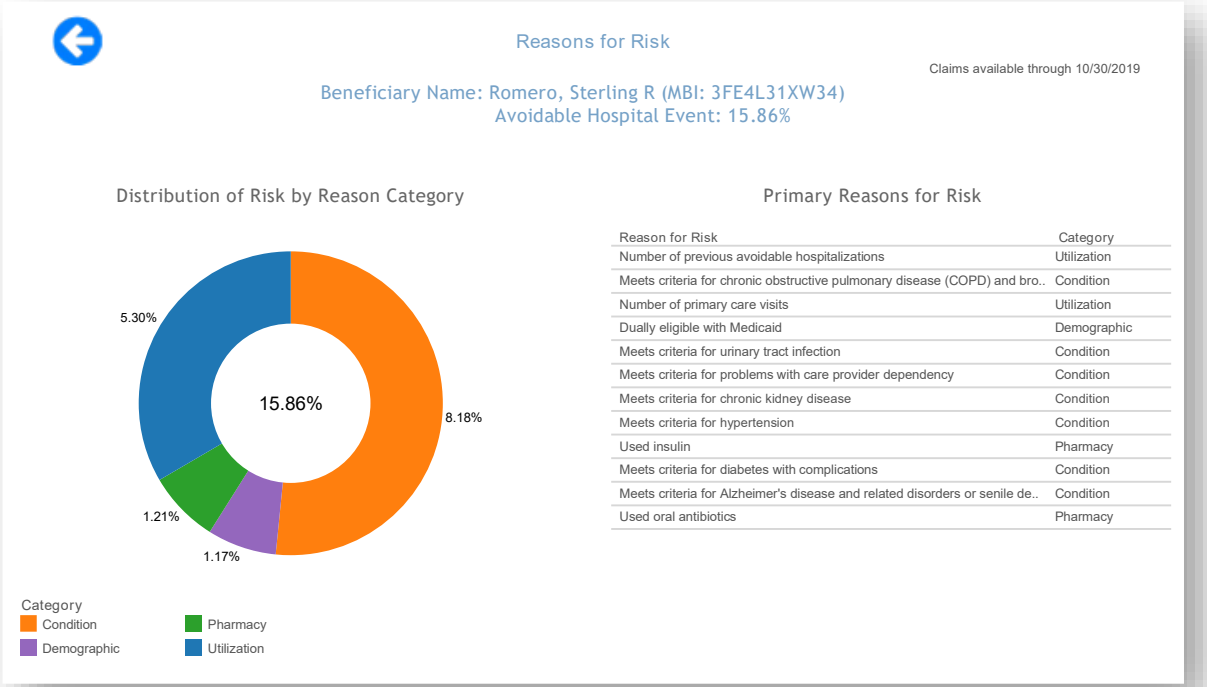
Reasons for Risk

- 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



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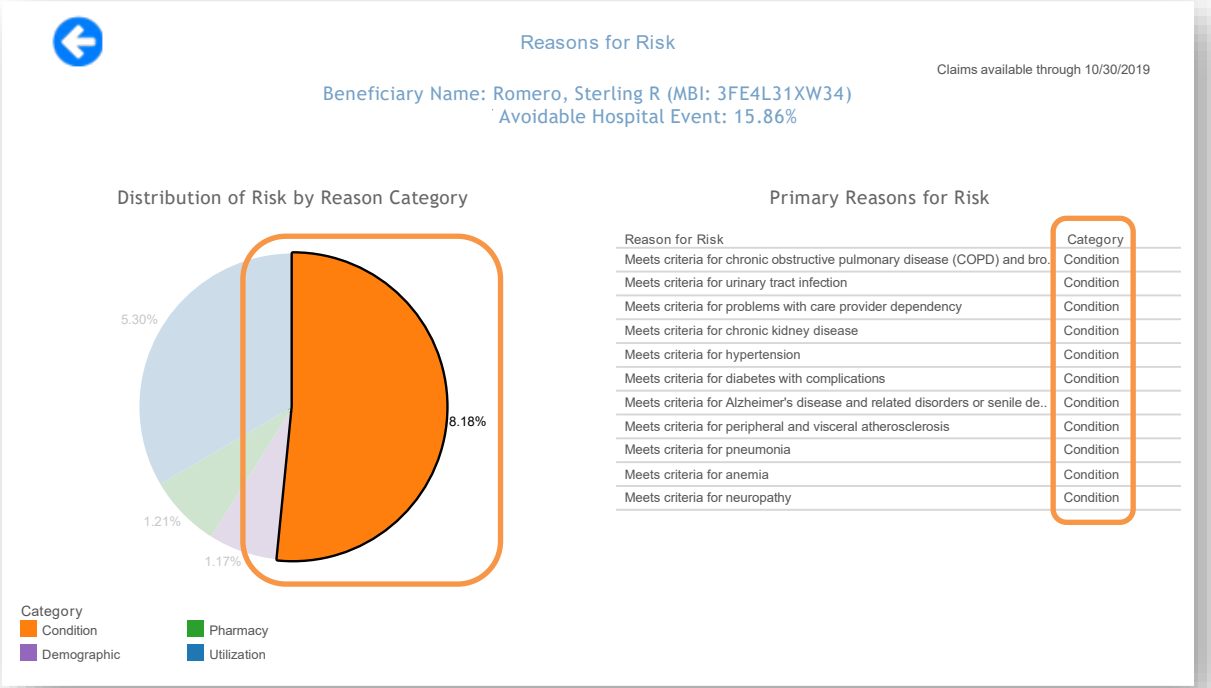
Reasons for Risk

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



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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.

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