



HEDIS immunization measures compliance & gaps reporting

Healthcare services provider

Unlocked visibility into various incentive linked-HEDIS measures to help the Clinical Care Management Team to plug patient care related quality gaps, improve compliance and increase the bonus payments from payors

Healthcare services provider needs HEDIS immunization measures compliance & gaps reporting

Picture this...

You’re looking to develop enterprise-wide Power BI dashboards reporting the compliance to the HEDIS combo and vaccine level measures. Partnered to implement the Immunization Calculation Engine (ICE) which provided insights into care gaps related to vaccinations and recommendations on the next vaccine which is due/overdue for the respective patients. Clinical Care Management Leadership teams did not have enterprise-wide visibility into the child and adolescent immunization measures at an individual vaccine and combo level to comply with HEDIS guidelines and on the due and overdue vaccines for the active patients.

You turn to Accordion.

We partner with your team to enhance, automate and streamline the forecasting process that would enhance the accuracy of the forecast within a short period of time, including:

- 1) Incorporating historical payment behavior of the customers in the forecast by using DBT (days beyond terms) trends.
- 2) Centralizing the process to consolidate customer level payment information and incorporating an additional layer into the model.
- 3) Enabling easy tracking of each adjustment layer and its impact on forecast with revised template resulting in reduced instances of manual adjustments while making the process faster, simpler and intuitive.
- 4) Tracking of Actuals vs. forecasted collections at the end of the week and in between the week to track accuracy and analysis of the WoW change in future week’s forecast to identify key change levers.

Your value is enhanced.

- You were able to achieve 4 – 5 percentage points improvement in the IMA measures and 0.1 – 0.4 percentage points improvement in the CIS measures to improve the HEDIS compliance by identifying the practices/clinics which are lagging on their HEDIS compliance and undertake corrective actions to create a potential opportunity for the improved bonus payouts from the payors.
- Clinical Care Management team was able to identify the patients with overdue and due vaccine and reach out to patients in advance (6 – 9 months in advance) to ensure the timely immunization of the patients, improving the overall patient outcomes with comprehensive care.

KEY RESULT

- 4 – 5 percentage points improvement in the IMA
- 0.1 – 0.4 percentage points improvement in the CIS measures

VALUE LEVERS PULLED

- BI Reporting
- Value Based Care Compliance
- Immunization Recommendations
- Enterprise Data Architecture

Care management KPIs – HEDIS and HEDIS gaps KPIs

Situation

- The client's Clinical Care Management Leadership teams did not have enterprise-wide visibility into the Child and Adolescent immunization measures at an individual vaccine and combo level to comply with HEDIS guidelines and on the due and overdue vaccines for the active patients
- Partnered with the client's Clinical Care Management team to develop enterprise-wide Power BI dashboards reporting the compliance to the HEDIS combo and vaccine level measures. Partnered to implement the Immunization Calculation Engine (ICE) which provided insights into care gaps related to vaccinations and recommendations on the next vaccine which is due/overdue for the respective patients.

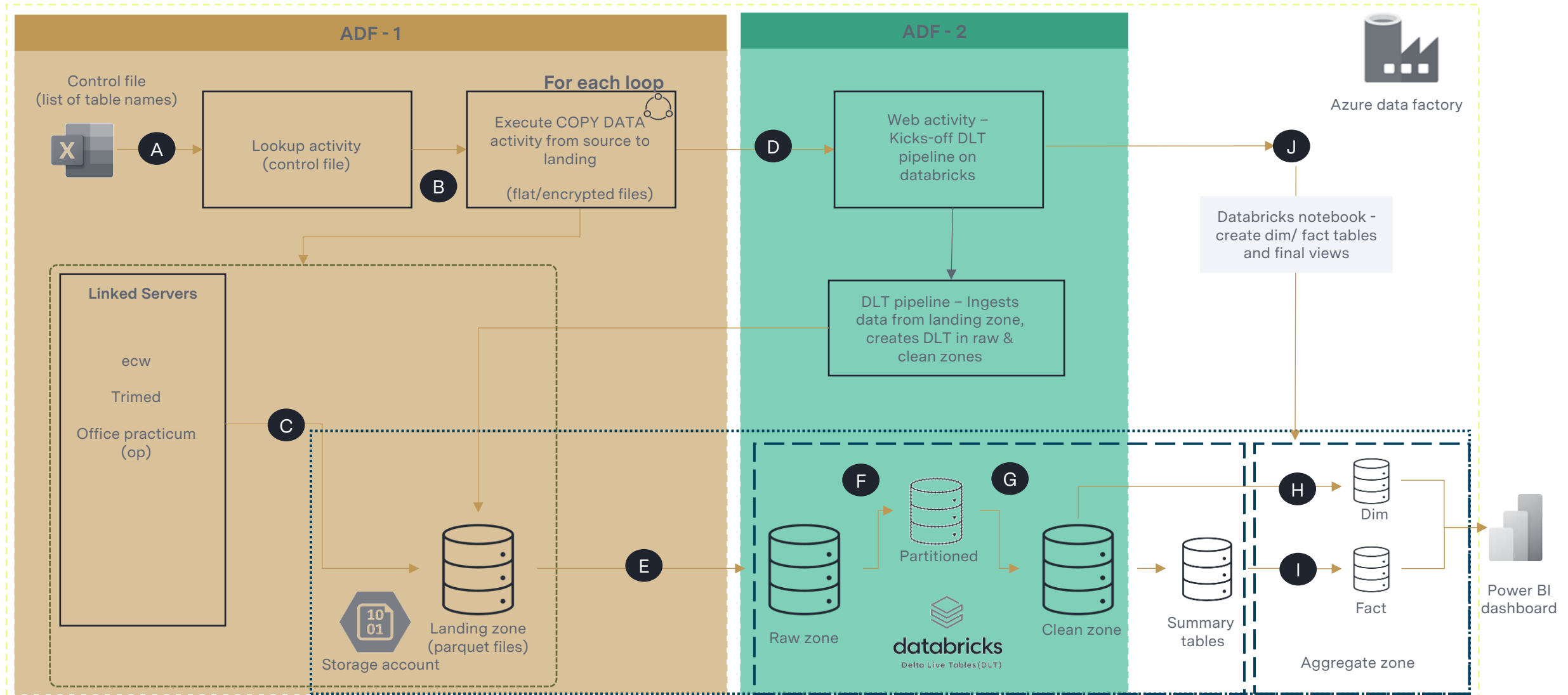
Accordion Value Add

- Set up the automated ingestion of the Immunization and Disease data from EMRs (eCW, TriMed and OP) using Azure Data Factory to Azure Data Lake
- Developed analytical models in Data Lake using Databricks and DLT pipelines to encode the HEDIS measures of CIS (Child Immunization Status) and IMA (Immunization for Adolescents) at an individual vaccine and combo level
- Set up the Immunization Calculation Engine to intake the request payload of patient gender, date of birth, immunization and disease details and generate the appropriate vaccine recommendations for the patients
- Integrated the recommendations output from the Immunization Engine with the HEDIS analytical model to develop a consolidated enterprise level view of all the measures across patients and practices
- Developed automated Power BI dashboards highlighting the enterprise level summary of the care gaps and detailed breakdown with patient details and recommendations for HEDIS Immunization measures.

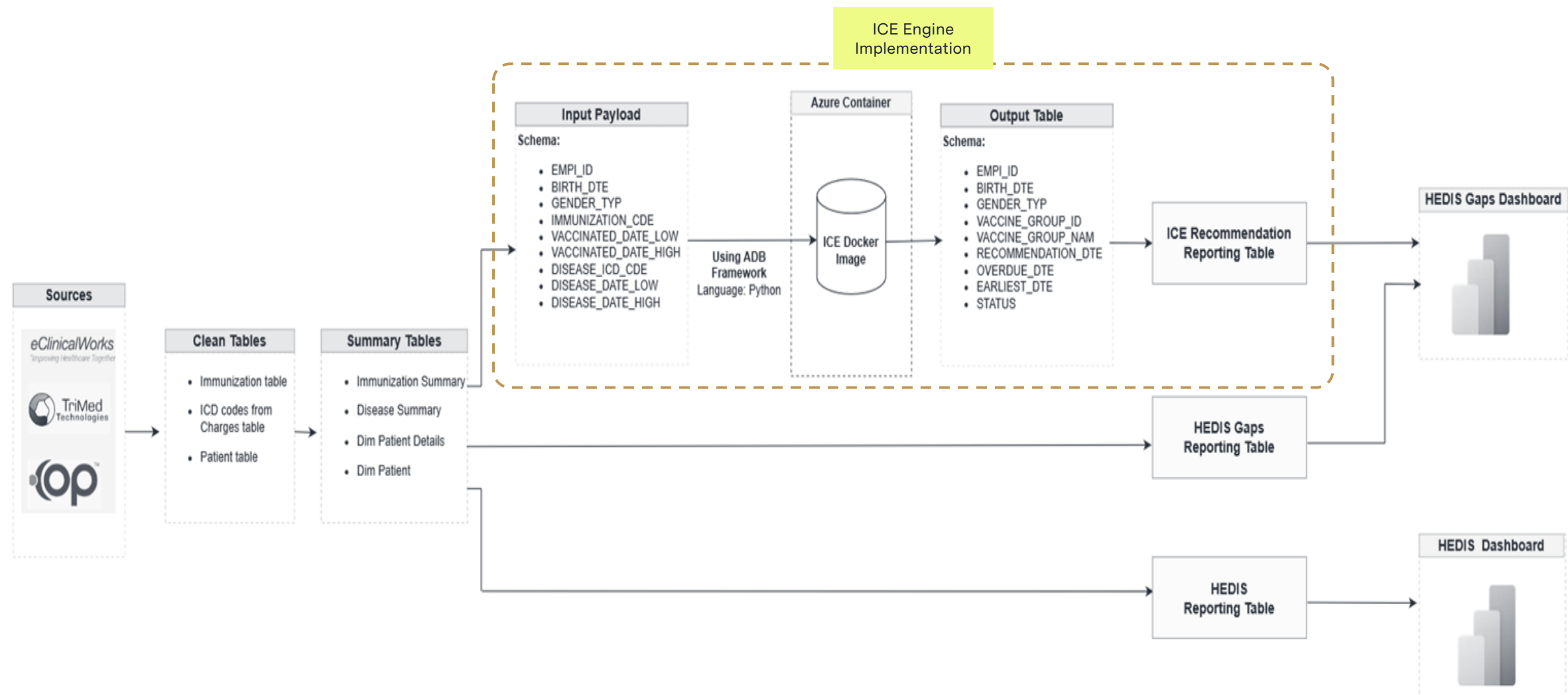
Impact

- The client was able to achieve 4 – 5 percentage points improvement in the IMA measures and 0.1 – 0.4 percentage points improvement in the CIS measures to improve the HEDIS compliance by identifying the practices/clinics which are lagging on their HEDIS compliance and undertake corrective actions to create a potential opportunity for the improved bonus payouts from the payors.
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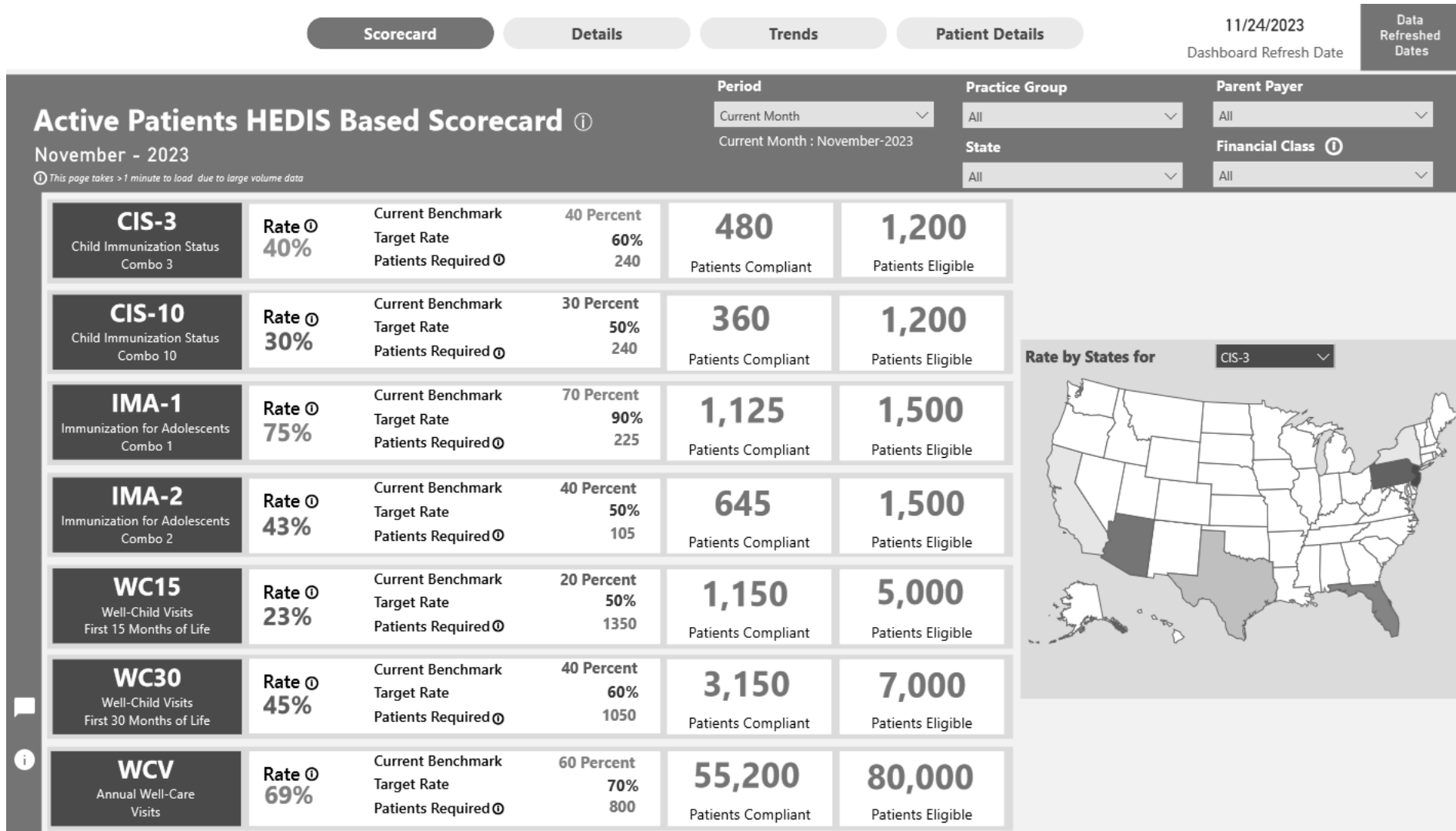
Methodology – Low level architecture diagram



Methodology – Data flows for ice integration

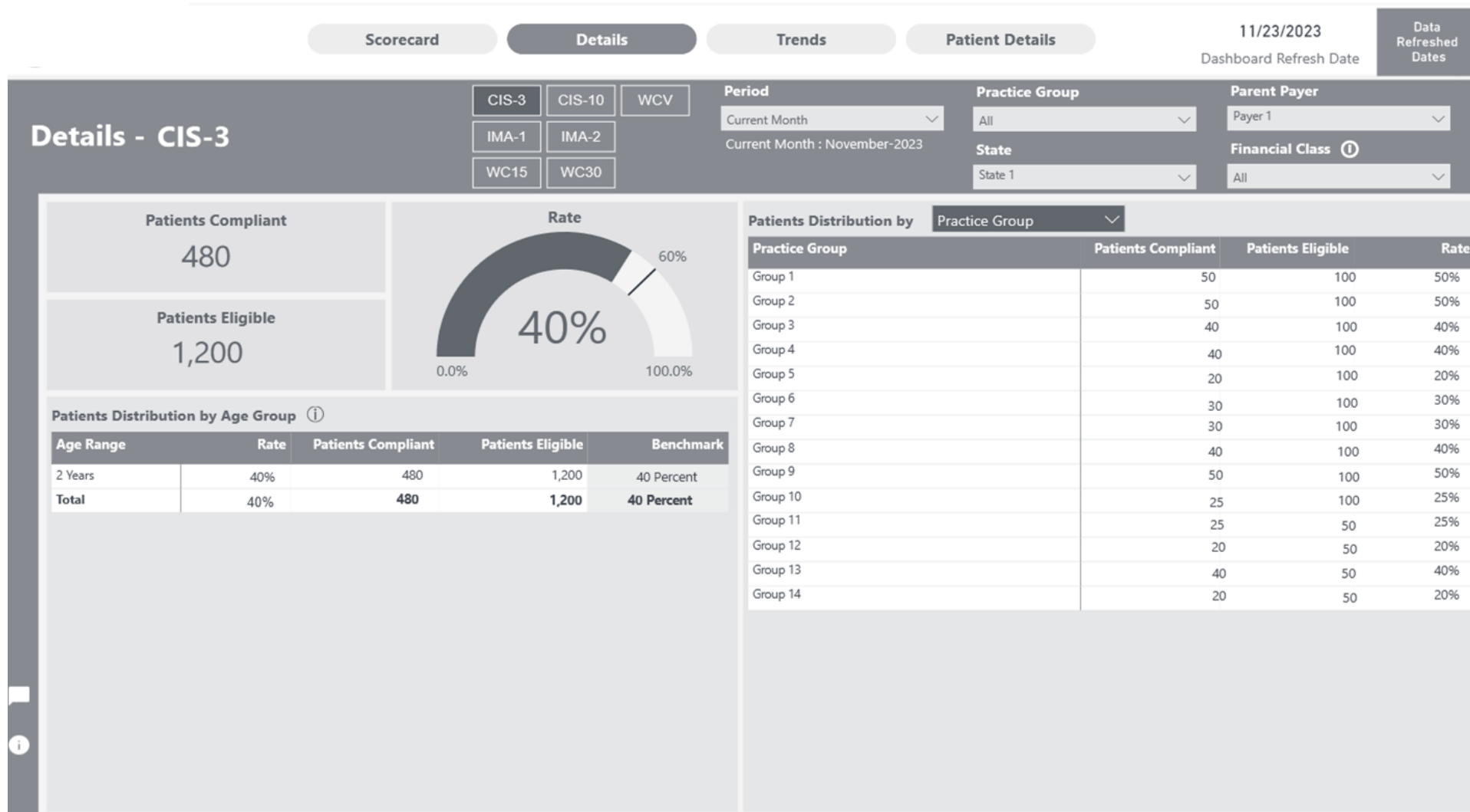


Care management KPIs – HEDIS compliance scorecard



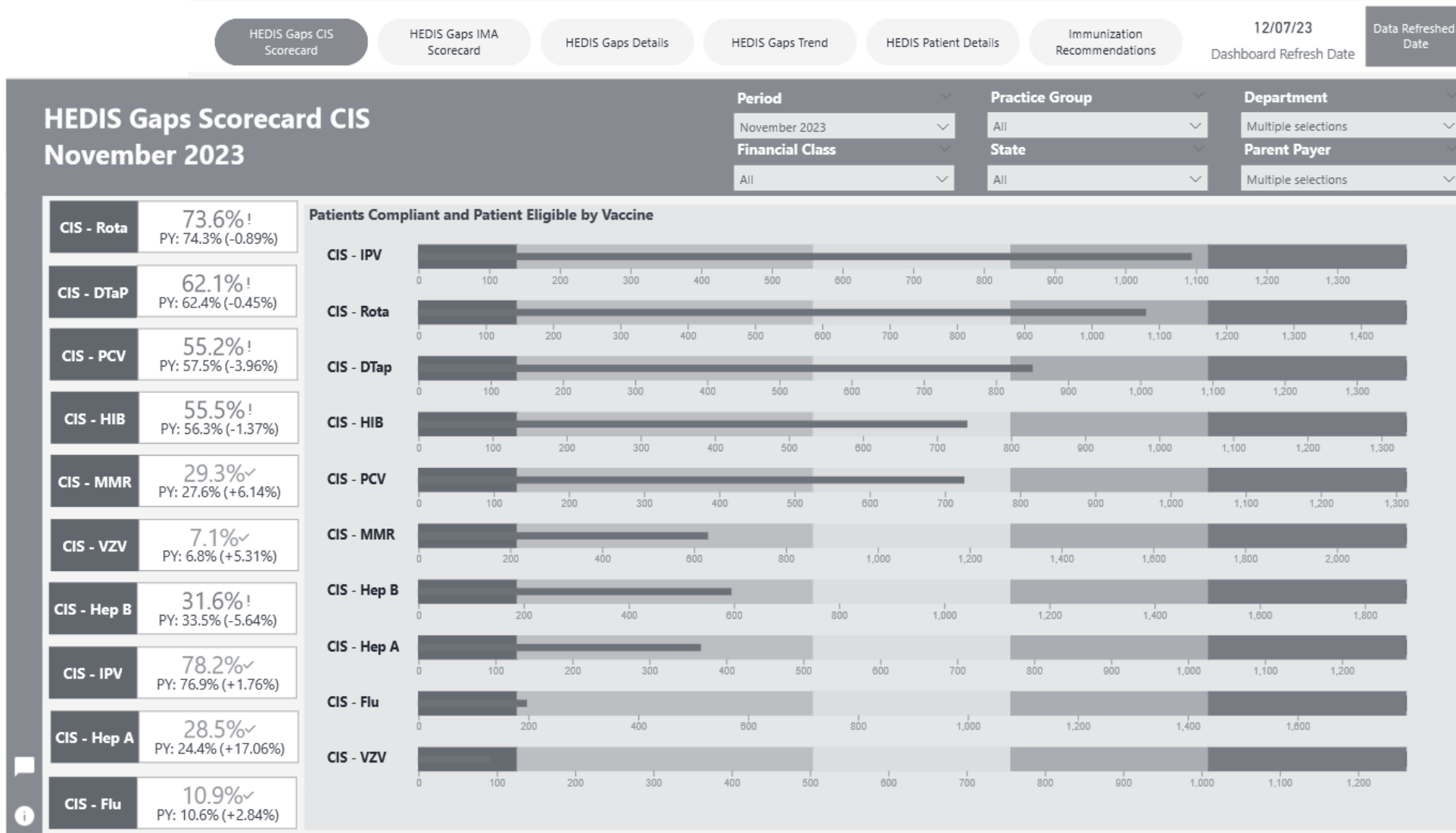
Summary view providing enterprise level summary of the CIS and IMA combo measures for HEDIS compliance, outlining the eligible and compliant patients for each combo measures

Care management KPIs – Detailed breakdown of compliance views



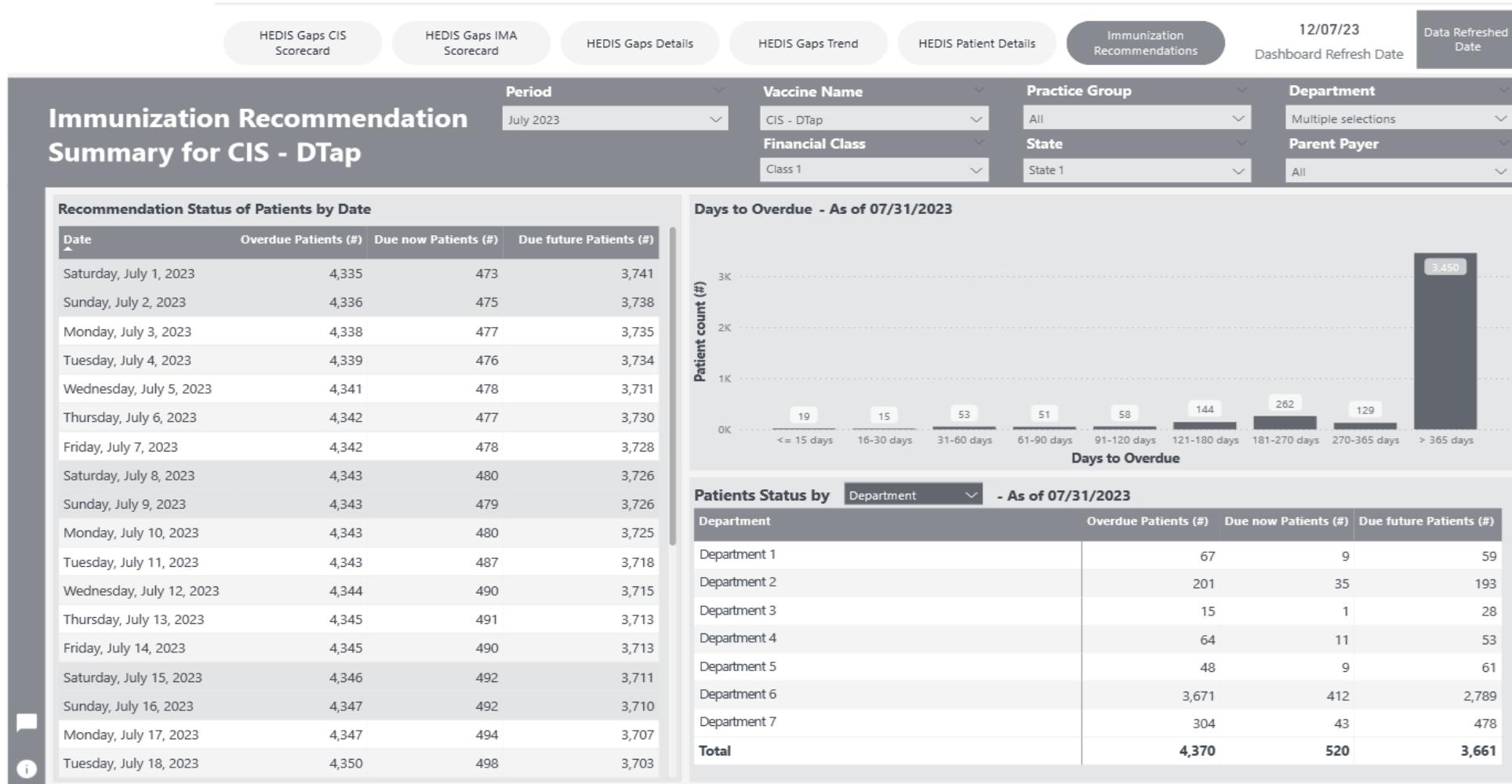
Distribution of the compliant and eligible patients and compliance rate for the selected combo measure across age group, practice group, department, payors, etc.

Care management KPIs – Vaccine level scorecard



HEDIS Gaps Scorecard for the compliance for all the vaccine level CIS measures, outlining the eligible and compliant patients

Care management KPIs – Vaccination recommendation summary



Immunization recommendations from the ICE engine for individual patients based on the immunization and disease history