Switching Transformers/Importers From 2019 to 2021 QIP Value Sets

Programmers Meeting November 1, 2021

New 2021 QIP Value Set

- This applies only to Transformers or Data Elements (AKA, Importers)
 that have a JOIN to the 2019 version of the QIP Value Sets
- Old table name in Relevant: relevant_qip_2019_value_set
- New table name in Relevant: hedis_value_set_codes
- The 2019 Value Set table will eventually be eliminated from the data scheme

Upgrade to New HEDIS Table

- New table name in Relevant: hedis_value_set_codes
- Similar structure and columns as the eCQM Value Set table
- Some columns have slightly different names (e.g., code vs code_value)
- New Value Sets in the future will be appended to this table
- In your SQL code, use the column latest = 'TRUE' to identify the most recent Value Set added. This is the same as the approach with the eCQM Value Set table
- The "switch" to the new table is a one-time procedure

eCQM Value Sets

- eCQM Value Set table: cqm_value_set_codes
- Generally, we are using the eCQM Value Sets for those Transformers or Data Elements that are used commonly between UDS or QIP Quality Measures
- For example, there is only one Data Element to identify for patients with diabetes: relevant_diabetics. There are not separate Data Elements with JOINS to the UDS and QIP Value Sets
- From my research/experience, the Value Sets tend to be the same. If you come across a significant difference, let me know!

Which Transformers or Data Elements Need to be Switched?

https://www.rchc.net/population-health/dataanalytics-and-governance/#toggle-id-2

- QIP Reporting
 - Recording 2021 QIP Report Set (5/2021)
 - Relevant 2021 QIP Report Set (slides, 5/2021)
 - Relevant 2021 QIP Report Set v1 (5/2021)
 - Reporting 2018 QIP Measures v1 (1/2019)

QIP 2021 Quality
Measure and Report
Notes and Set-up
Instructions
(Version 1)



Serving Sonoma, Napa, Marin & Yolo Counties

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QIP 2021 Quality Measure and Report Set Instructions (Version 1)

Appendix: Value Sets Associated With the QIP Measures

The QIP Quality Measures use Value Sets to define diagnosis (ICD), procedure (CPT), lab (LOINC), and immunization (CVX) codes. This ensures that all reporting health centers are extracting data in a standardized manner. For example, the diabetes value set includes all diagnosis codes for diabetes that are applicable to the Quality Measure. This relieves each health center of the burden to identify appropriate codes from their system. For example, not all diagnosis codes with a name containing the word "diabetes" is appropriate for identifying that Quality Measure population of patients with diabetes.

It is recommended that Importers (or associated Transformers) directly utilize the designated Value Set in the SQL code. If the health center uses additional codes as a matter of routine (or if the health center can identify records using key words in structured data or other means), these can be added after proper internal review. The RCHC Data Standards and Integrity Committee regularly makes recommendations for data standardization and many of these recommendations have been discussed in the instructions above.

The QIP measures officially use the HEDIS Value Sets and the UDS measures use the eCQM Value Sets. In most cases, these Value Sets are identical. There are not separate Value Sets in Relevant for QIP and UDS measures. Frequently, the eCQM Value Sets have already been utilized in Relevant. For measures that are not comparable, the QIP/HEDIS Value Set will need to be used.

The large table below lists the standard Importers for each QIP Quality Measure and Report, along with the associated Value Set. The ID numbers mostly reference eCQM Value Sets, except where noted. In Relevant, the table with the eCQM Value Set codes is named "cqm_value_set_codes" and the table with the QIP Value Set codes is named "relevant_qip_2019_value_set." The most recently updated Value Sets on the table are identified by the column latest = TRUE.

Note that the Value Sets pick up codes only. If your health center has other ways of recognizing the required data (for example, it is entered into structured data), then those should be considered as well. In other words, Value Sets are the standard and recommended approach, but appropriate alternatives may exist.

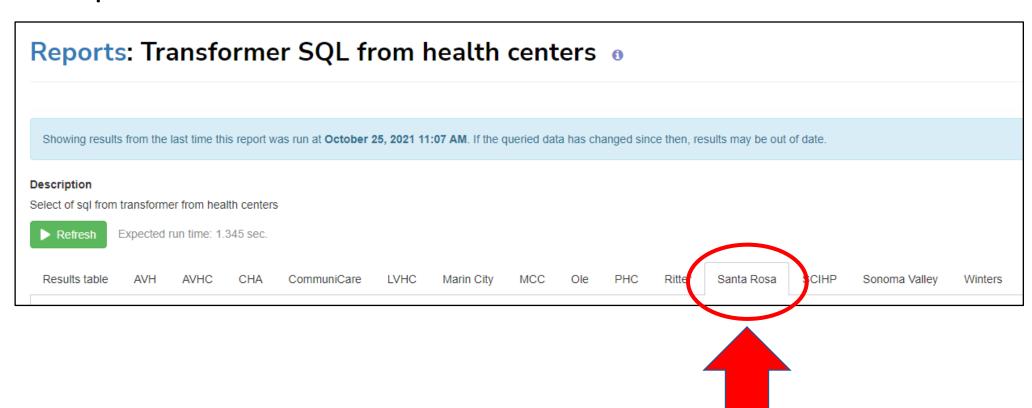
Appendix Table

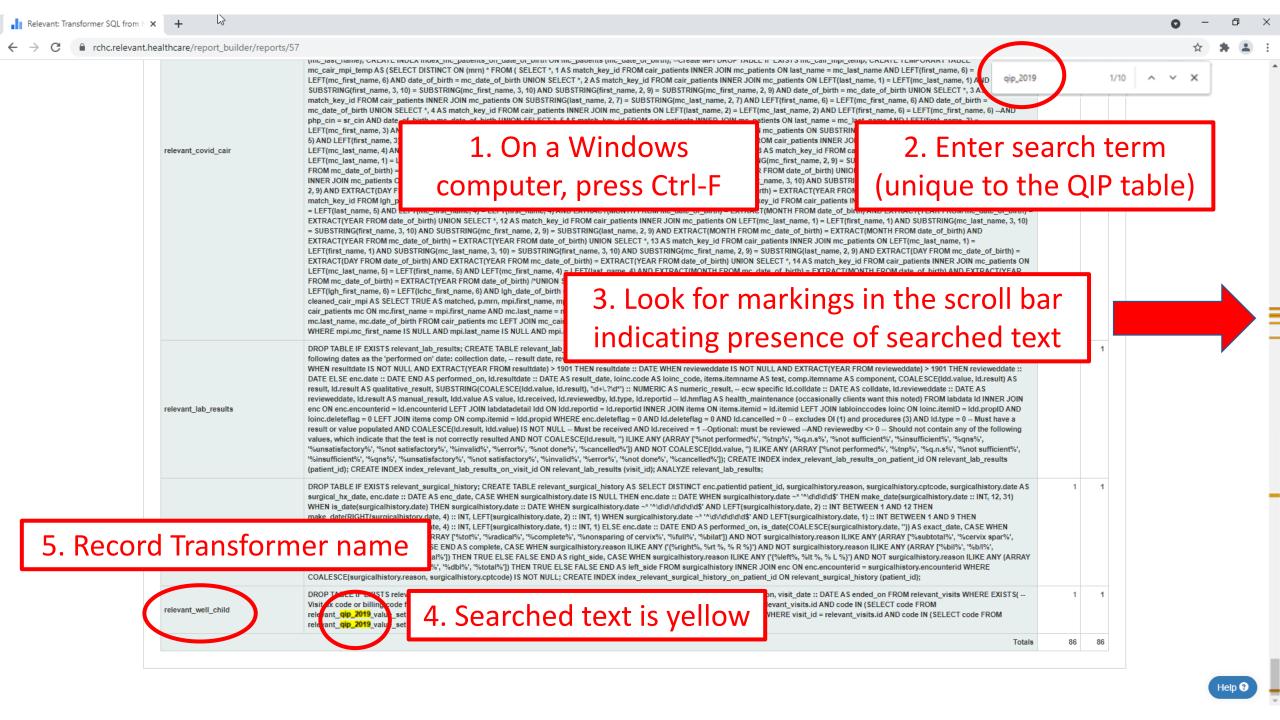
Quality Measure or Report Name	Importer	Value Set Name (default eCQM, except where noted)	OID (eCQM identifier)	Value Set Type
Immunizations for Adolescents (QIP 2021)	mcv_immunizations	QIP: Meningococcal Vaccine Administered	No eCQM	Vaccines
	tdap_immunizations	QIP: Tdap Vaccine Administered	No eCQM	Vaccines
	hpv_immunizations	QIP: HPV Vaccine Administered	No eCQM	Vaccines

 Generally, reference names to Value Sets should be the same. This document was created earlier in the year with references to the 2019 Value Sets

Other Research

- Use the SQL reports on the RCHC Aggregate
- Example:





Other RCHC Aggregate Reports





Key QIP Quality Measures and Value Sets

- Well-Child Visits in the First 15 Months of Life (QIP 2021)
 - Well Care
- Child and Adolescent Well-Care Visits (QIP 2021)
 - Well Care
- Immunizations for Adolescents (QIP 2021)
 - Meningococcal Vaccine Administered
 - Tdap Vaccine Administered
 - HPV Vaccine Administered

SQL Change Example

OLD SQL CODE

```
DROP TABLE IF EXISTS relevant well child gip;
CREATE TABLE relevant_well_child_qip AS
SELECT
patient id.
visit date :: DATE AS started on,
visit_date :: DATE AS ended_on
FROM relevant visits
WHERE EXISTS(
 -- Visit dx code or billing code from Well-Child QIP Value Set:
  SELECT visit_id
  FROM relevant visit diagnosis codes
  WHERE visit_id = relevant_visits.id
   AND code IN (SELECT code
       FROM relevant gip 2019 value set
       WHERE value set name + 'Well Care'))
 OR EXISTS
  SELECT visit id
  FROM relevant_visit_billing_codes
  WHERE visit_id = relevant_visits.id
    AND code IN (SELECT code
       FROM relevant gip 2019 value set
       WHERE value_set_name = 'Well-Care'
       AND code system IN ( 'CPT', 'HCPCS', 'HomegrownPX'))
 );
```

NEW SQL CODE

```
DROP TABLE IF EXISTS relevant_well_child_gip;
CREATE TABLE relevant well child gip AS
SELECT
patient id,
visit_date :: DATE AS started_on,
visit date :: DATE AS ended on
FROM relevant visits
WHERE EXISTS(
 -- Visit dx code or billing code from Well-Child QIP Value Se
  SELECT visit id
  FROM relevant_visit_diagnosis_codes
  WHERE visit_id = relevant_visits.id
    AND code IN (SELECT code, value)
       FROM hedis value_set_con
        WHERE - Low Col - me = 'Well-Care'
          AND latest = 'TRUE'))
 OR EXISTS
  SELECT visit id
  FROM relevant_visit_billing_codes
  WHERE visit id = relevant visits.id
      AND code IN (SELECT code_value
          FROM hedis value set codes
          WHERE value set name = 'Well-Care'
            AND latest = 'TRUE')
```

Other Notes

- You might find Transformers/Importers from "old" measures that are connected to the 2019 QIP Value Set. Examples: diabetes nephropathy screens and retinal eye exams. You might as well "fix" those as well. They are still part of the model and might be used for Care Gaps (or they might return as measures)
- There might be references in the new Data Elements, like relevant_cases or relevant_medications
- The HEDIS Value Set table contains all of the Value Sets, not just the QIP. Therefore, you can also use it to find codes for *ad hoc* reports

Other Notes

- Ben will update the RCHC Validation Reports on the RCHC Aggregate that use the old 2019 QIP Value Set table. You should update these in your Relevant instance as well
- Ben is researching the "HomegrownPx" codes in the 2019 QIP Value Sets
- The HEDIS Value Set table exists currently in the Staging Database.
 Ben is asking Relevant about also putting it in the Production Database