

# IMMUNIZATIONS COVERED UNDER THE IMMUNIZATION OF SCHOOL PUPILS ACT (ISPA): **SEARCH & INSTALLATION GUIDE FOR OSCAR EMR**

## Overview

In partnership with Region of Waterloo Public Health, Amplify Care has developed a set of immunization searches for the **OSCAR EMR** to identify patients that do not meet the full immunization criteria under the **Immunization of School Pupils Act (ISPA)**. These searches help primary care clinicians quickly identify patients who are overdue for immunizations.

This search and installation guide contains the below sections:

- A. The Immunization of School Pupils Act (ISPA) Criteria and Search Overview
- B. Search Package Details
- C. Instructions for Importing a Report Template in OSCAR EMR
- D. Instructions for Running a Report Template in OSCAR EMR

## Section A: The Immunization of School Pupils Act (ISPA) Criteria and Search Overview

**ISPA searches:** Supports identification of patients between the ages of 4 to grade 12 (i.e., elementary and secondary students) overdue for any childhood immunization(s) covered under the Immunization of School Pupils Act (ISPA) and are on the priority list for vaccination. Please note: Immunizations such as Pneu-C-13 (Pneumococcal Conjugate 13), Hepatitis B (Hep B), or Human Papillomavirus (HPV) are not included as they are not required for school.

High-level criteria for the ISPA specific immunizations is listed below:

Immunization	Recommended Overdue Criteria Based on ISPA
<b>DTaP-IPV-Hib:</b> Diphtheria, Tetanus, Pertussis, Polio Haemophilus influenzae type b	If $\geq 4$ and $\leq$ Grade 12 years of age, then check for $< 4$ doses of DTaP-IPV-Hib
<b>Tdap-IPV: Tetanus, Diphtheria, Pertussis, Polio</b>	<i>Note: If <math>\geq 4</math> and <math>&lt; 7</math> years of age, no checking for Tdap-IPV since they have until 7 years to be considered overdue</i>  If $\geq 7$ and $<$ Grade 12 of age, then check for $< 1$ dose of Tdap-IPV regardless of birth year.
<b>MMR: Measles, Mumps, Rubella</b>	If $\geq 4$ and $< 7$ years of age, then check for $< 1$ dose of MMR  OR  If $\geq 7$ and $<$ Grade 12, then check for $< 2$ doses of MMR regardless of birth year

Immunization	Recommended Overdue Criteria Based on ISPA
<b>VZ: Varicella</b>	If $\geq 4$ and $< 7$ years of age, then check for $< 1$ dose of VZ  OR  If $\geq 7$ and $< \text{Grade } 12$ , then check for $< 1$ VZ (if born 2010 and after, $< 2$ VZ)
<b>Men-C-C: Meningococcal Conjugate C</b>	If $\geq 4$ and $\leq \text{Grade } 7$ , then check for $< 1$ dose of Men-C-C
<b>Men-C-ACYW: Meningococcal Conjugate ACYW-135</b>	Men C-C ACYW: given in Grade 7 so student would be overdue for ISPA if they have not received it by beginning of Grade 8.  If student is in Grade 8 and up until end of Grade 12, then check for $< 1$ dose of Men-C-C ACYW135
<b>Tdap: Tetanus, Diphtheria, Pertussis (every 10 years)</b>	<i>If immunized on schedule, then Tdap-IPV is given at 4 years so the next one should be at 14 (If it has been 10 years + 1 month since the last tdap or tdap-IPV, then considered overdue)</i>  Check for $< 1$ dose (if $\geq 10$ years since last Tdap or Tdap-IPV)

**Please note:**

- The search is:
  - Looking for active and rostered patients
  - Searching for patients by age and grade ranges specified for each vaccine (this is done by using birth year + school calendar year and tying it to the current date to determine eligibility)
  - Checking for required number of doses
- **No “catch-up schedule”:** The search is unable to determine if a patient is on a “catch-up” schedule and only captures patients based on the routine ISPA vaccination schedule by age.
- **Criteria is flexible:** EMR users and office staff can modify the search based on their preferences.
- **Limitations:** The search criteria is constrained by the limitations of the OSCAR EMR search capabilities, which include: The EMR is unable to distinguish between high and low doses of the DTAP-IPV-Hib and to identify intervals between doses.

For any issues related to the installation or running of the search, please feel free to direct your queries to [EMRtools@amplifycare.com](mailto:EMRtools@amplifycare.com).

## Section B: Search Package Details

The package (.zip file) contains the following items:

1. Supporting documentation: **Immunization of School Pupils Act (ISPA) Search and Installation Guide OSCAR v1.0**
2. **ISPA Oscar Report Template.xml** file that contains the report template titled, “**Young patients with an incomplete vaccination scheme - ages 2 months to 18 years**” - to be imported and run in the EMR (see section C and D below for further instructions)

Report Template Criteria
<b>Diphtheria, Tetanus, Pertussis, Polio and Hib: (Overdue ages 4-7):</b>  Ages =4 and <7  and  <4 doses of Diphtheria, Tetanus, Pertussis, Polio, and Hib
<b>Diphtheria, Tetanus, Pertussis, Polio, and Hib (Overdue ages 7– grade 12):</b>  The search is looking for patients between age $\geq 7$ and grade 12 The logic includes looking for birth year + school calendar year and tying it to the current date to determine eligibility. Therefore, any patients born in 2007 for current school year (Sept 1, 2024 – Aug 31, 2025) would be in grade 12 and those born later will be in other respective grades. As time progresses, the current grade 12 cohort will graduate, and the next cohort will enter. To accommodate this transition, the search criteria has been designed to account for the upcoming five years.  Therefore, criteria include: if birth year is 2007 or after + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and within age 7 and end of grade 12.  and  <5 doses of Diphtheria, Tetanus, Pertussis, Polio  and  <4 doses of Hib
<b>Measles, Mumps, and Rubella (Overdue ages 4-7)</b>  Ages $\geq 4$ and < 7  and  <1 dose of Measles, Mumps, Rubella

**Measles, Mumps, and Rubella (Overdue ages 7 - grade 12):**

The search is looking for patients between age  $\geq 7$  and grade 12

The logic includes looking for birth year + school calendar year and tying it to the current date to determine eligibility. Therefore, any patients born in 2007 for current school year (Sept 1, 2024 – Aug 31, 2025) would be in grade 12 and those born later will be in other respective grades. As time progresses, the current grade 12 cohort will graduate, and the next cohort will enter. To accommodate this transition, the search criteria has been designed to account for the upcoming six years.

Therefore, criteria include:

if birth year is 2007 (20XX-17) or after + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and within age 7 and end of grade 12.

and

< 2 doses of Measles, Mumps, Rubella

**Varicella (Overdue ages 4-7):**

Ages =4 and <7

and

<1 dose of Varicella

**Varicella (2010 criteria Overdue ages 7 – grade 12):**

The search is looking for patients who are ages  $\geq 7$  have birth year  $\geq 2010$  and end of grade 12

The logic includes looking for birth year + school calendar year and tying it to the current date to determine eligibility. Therefore, any patients born in 2007 for current school year (Sept 1, 2024 – Aug 31, 2025) would be in grade 12 and those born later will be in other respective grades. As time progresses, the current grade 12 cohort will graduate, and the next cohort will enter. To accommodate this transition, the search criteria has been designed to account for the upcoming six years.

After identifying the in-school cohort, we further narrow the search to patients born in 2010 or later.

Therefore, the criteria include:

if birth year is 2010 or after + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and within age and end of grade 12 and have birth year  $\geq 2010$

and

< 2 doses of Varicella

**Men-C & Men-C-ACYW (Overdue ages 4 – grade 12):**

The search is looking for two groups:

- patients between age  $\geq 4$  and grade 7
- Patients between grade 8 and grade 12
- 

(Note: The logic includes looking for birth year + school calendar year and tying it to the current date to determine eligibility. Therefore, any patient born in 2012 or after the current school year, would be in grade 7. Similarly, any patients born between 2007 and 2011 for the current school year would be between grade 8 and grade 12. As time progresses, the current cohorts will graduate, and the next cohort will enter. To accommodate this transition, the

Search criteria have been designed to account for the upcoming six years.

Therefore, criteria include:

if the birth year is 2012 or after + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and within age 4 and end of grade 7.

and

< 1 dose of Men C-C and <1 dose of Men-C-ACYW

OR

If the birth year is between 2007 and 2011 + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and between grades 8-12.

and

<1 dose of Men-C-ACYW

**Tetanus, Diphtheria, and Pertussis (Overdue ages 4 – grade 12):**

The search is looking for patients between age  $\geq 4$  and grade 12. The logic includes looking for birth year + school calendar year and tying it to the current date to determine eligibility. Therefore, any patients born in 2007 for current school year (Sept 1, 2024 – Aug 31, 2025) would be in grade 12 and those born later will be in other respective grades. As time progresses, the current grade 12 cohort will graduate, and the next cohort will enter. To accommodate this transition, the search criteria has been designed to account for the upcoming five years.

Therefore, criteria include:

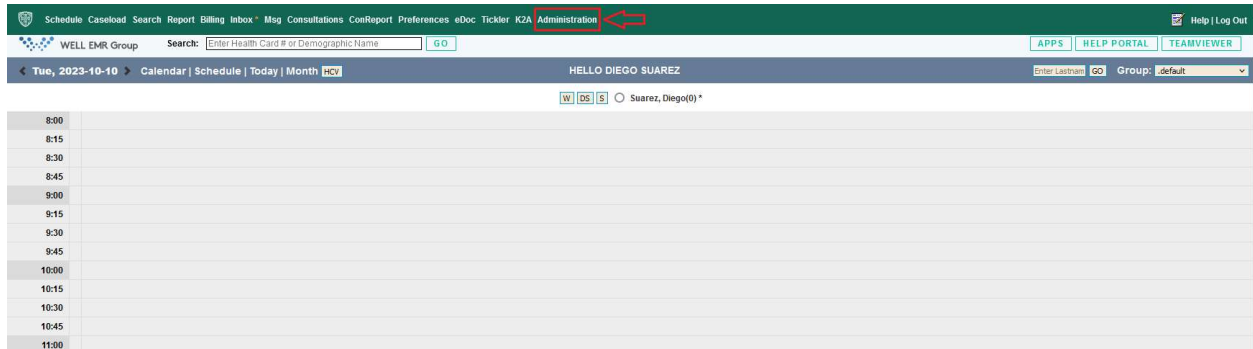
if birth year is 2007 or after + today's date falls between the academic year, Sept 1, 20XX - Aug 31, 20XX + 1, patient is considered in school and within age 4 and end of grade 12.

and

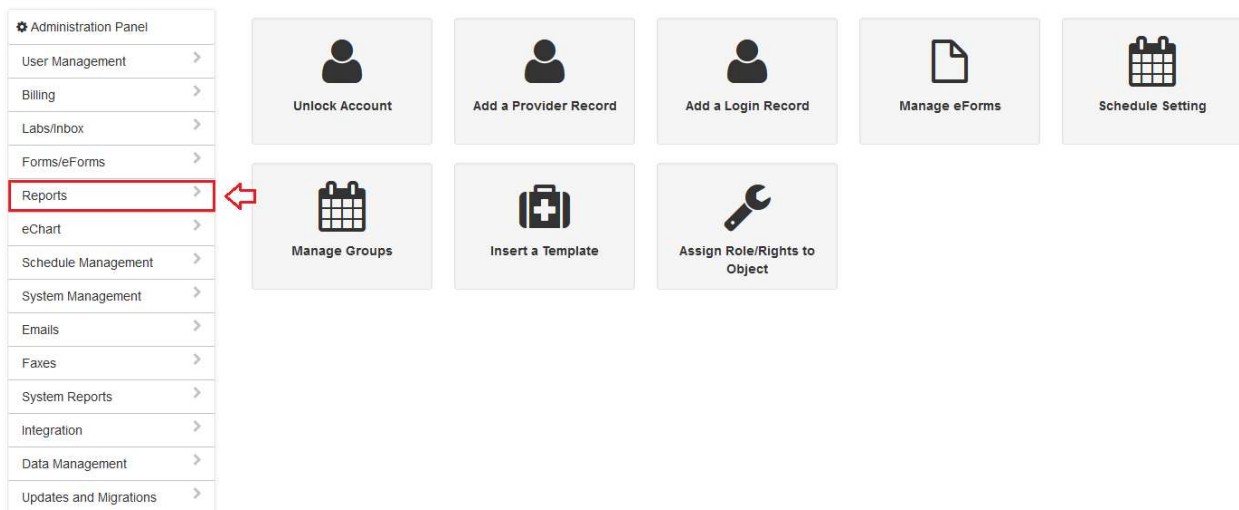
>10 years (3562 days) since their last dose of Tetanus/Pertussis/Diphtheria

## Section C: Instructions for Importing a report template in OSCAR EMR

1. In the main window, select the “Administration” tab at the end of the top menu.



2. Inside the administration window, select the “Reports” item from the left menu.





### 3. From the “Reports” submenu, select the “Report by template” option.

- Administration Panel
- User Management
- Billing
- Lab/Inbox
- Forms/eForms
- Reports
- Query By Example
- Report by Template**
- Age-Sex Report
- Visit Report
- PCN
- Flu Billing Report
- Overnight Batch
- Rehab Study
- Patient List by Appointment
- Time
- Provider Service Report
- Usage Report
- Disease Registry
- Study
- PHCP (Setting: Provider, dx category)
- CKD Screening Report (async)
- Pre-Implementation Report
- Manage Patient Letter
- EForm Report Tool
- eChart
- Schedule Management
- System Management
- Emails

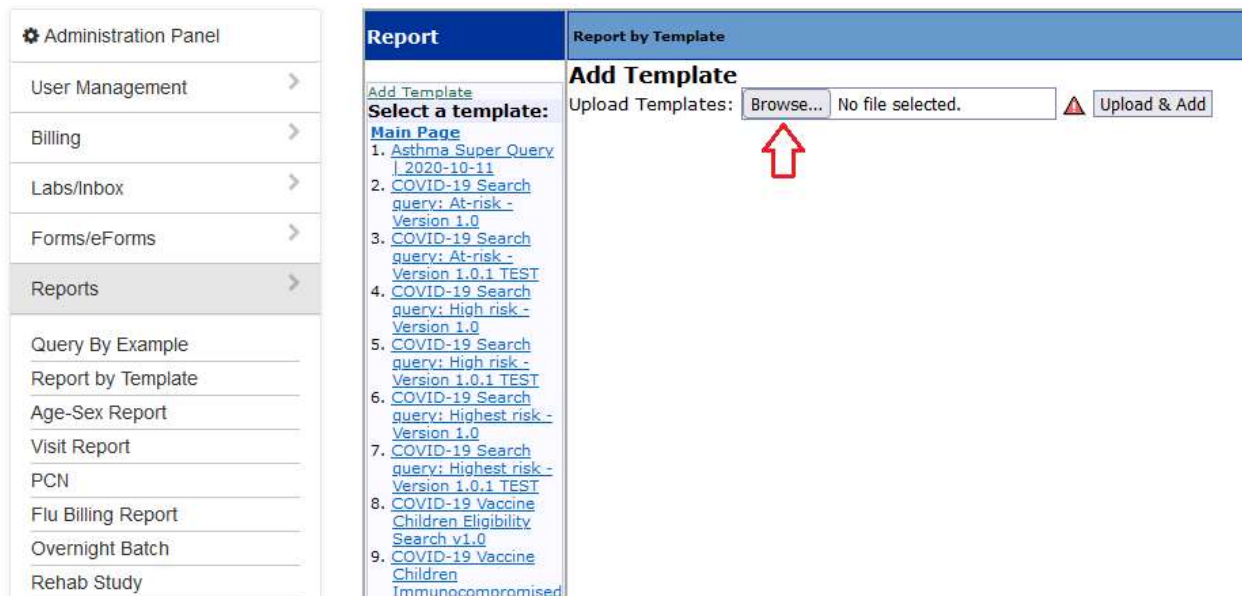
Report	Report By Template
Download From K2A	<b>Report By Template</b>
Add Template	Select a template:
1. Asthma Super Query - Version 1.0	1. Asthma Super Query - Version 1.0
2. COVID-19 Search query: At-risk - Version 1.0	2. COVID-19 Search query: At-risk - Version 1.0
3. COVID-19 Search query: At-risk - Version 1.0	3. COVID-19 Search query: At-risk - Version 1.0
4. COVID-19 Search query: At-risk - Version 1.0	4. COVID-19 Search query: At-risk - Version 1.0
5. COVID-19 Search query: At-risk - Version 1.0	5. COVID-19 Search query: At-risk - Version 1.0
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7. COVID-19 Search query: At-risk - Version 1.0	7. COVID-19 Search query: At-risk - Version 1.0
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15. COVID-19 Search query: At-risk - Version 1.0	15. COVID-19 Search query: At-risk - Version 1.0
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23. COVID-19 Search query: At-risk - Version 1.0	23. COVID-19 Search query: At-risk - Version 1.0
24. COVID-19 Search query: At-risk - Version 1.0	24. COVID-19 Search query: At-risk - Version 1.0

### 4. Then, select the green link “Add Template” located at the top of the list of available report templates.

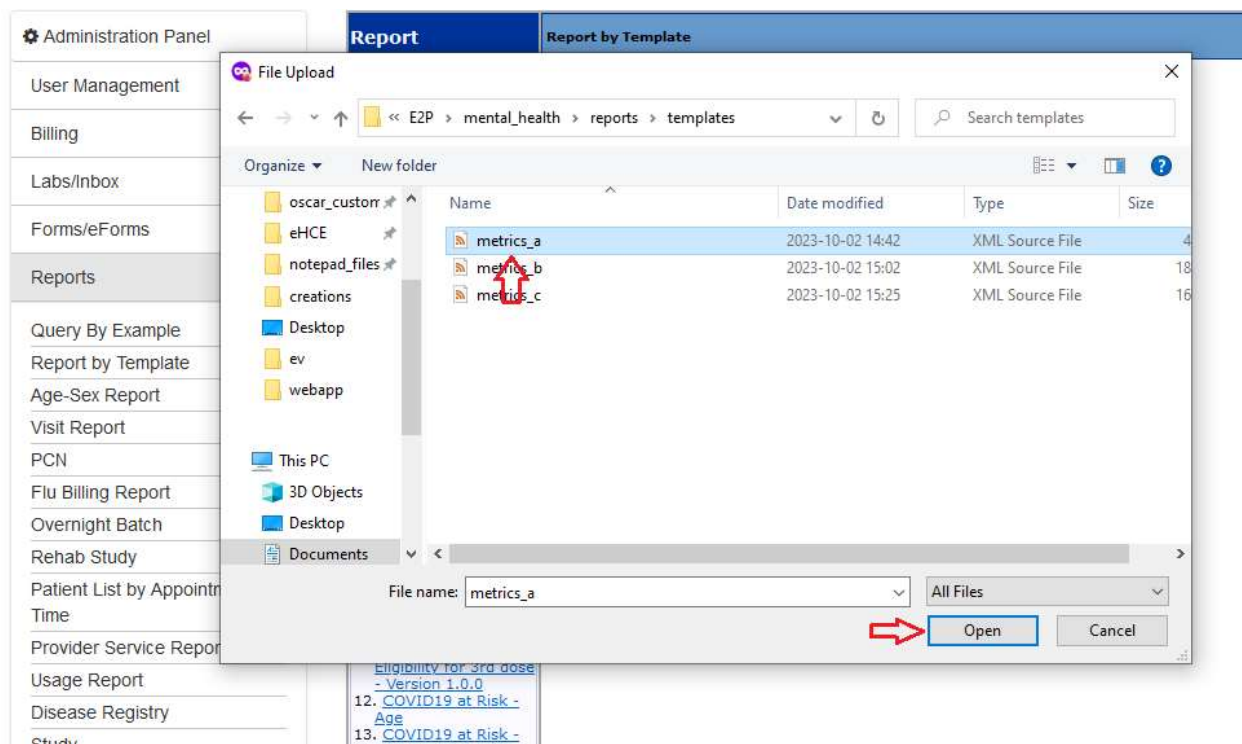
- Administration Panel
- User Management
- Billing
- Lab/Inbox
- Forms/eForms
- Reports
- Query By Example
- Report by Template**
- Age-Sex Report
- Visit Report
- PCN
- Flu Billing Report
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- Rehab Study
- Patient List by Appointment
- Time
- Provider Service Report
- Usage Report
- Disease Registry
- Study
- PHCP (Setting: Provider, dx category)
- CKD Screening Report (async)
- Pre-Implementation Report
- Manage Patient Letter
- EForm Report Tool
- eChart
- Schedule Management
- System Management
- Emails

Report	Report By Template
Download From K2A	<b>Report By Template</b>
Add Template	Select a template:
1. Asthma Super Query - Version 1.0	1. Asthma Super Query - Version 1.0
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24. COVID-19 Search query: At-risk - Version 1.0	24. COVID-19 Search query: At-risk - Version 1.0

- In the add template window, select the option “Browse”. This will open a new window to select the report template file (.xml) that you want to import.

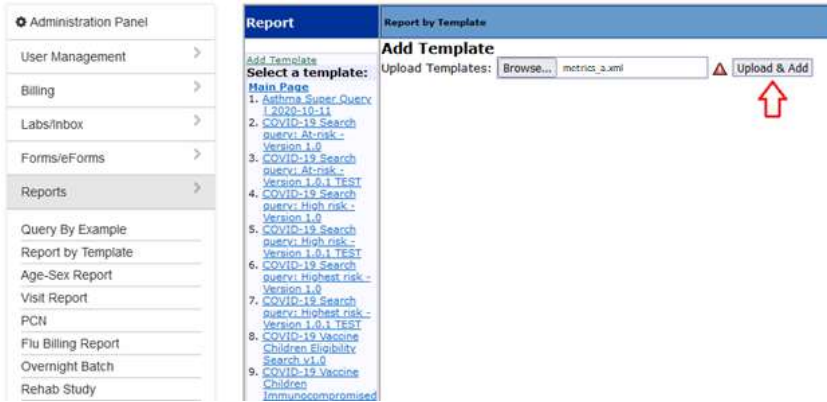


- In the file browsing window, navigate to the file you want to import, select it, and click the “Open” button.





7. Lastly, click the “Upload & Add” button to finish importing the file to the EMR.



**Administration Panel**

- User Management >
- Billing >
- Labs/Inbox >
- Forms/eForms >
- Reports >**
  - Query By Example
  - Report by Template
  - Age-Sex Report
  - Visit Report
  - PCN
  - Flu Billing Report
  - Overnight Batch
  - Rehab Study

**Report**

**Report by Template**

**Add Template**

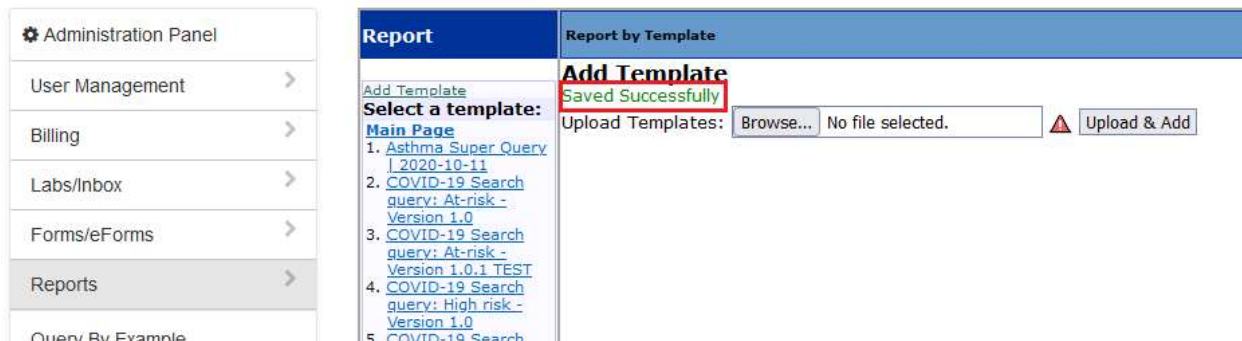
Upload Templates:

**Select a template:**

**Main Page**

1. Asthma Super Query | 2020-10-11
2. COVID-19 Search query: At-risk - Version 1.0
3. COVID-19 Search query: At-risk - Version 1.0.1 TEST
4. COVID-19 Search query: High risk - Version 1.0
5. COVID-19 Search query: High risk - Version 1.0.1 TEST
6. COVID-19 Search query: Highest risk - Version 1.0
7. COVID-19 Search query: Highest risk - Version 1.0.1 TEST
8. COVID-19 Vaccine Children Eligibility Search v1.0
9. COVID-19 Vaccine Children Immunocompromised

8. A green message, “Saved Successfully”, will appear if the file was successfully imported.



**Administration Panel**

- User Management >
- Billing >
- Labs/Inbox >
- Forms/eForms >
- Reports >**
  - Query By Example

**Report**

**Report by Template**

**Add Template**

**Saved Successfully**

Upload Templates:

**Select a template:**

**Main Page**

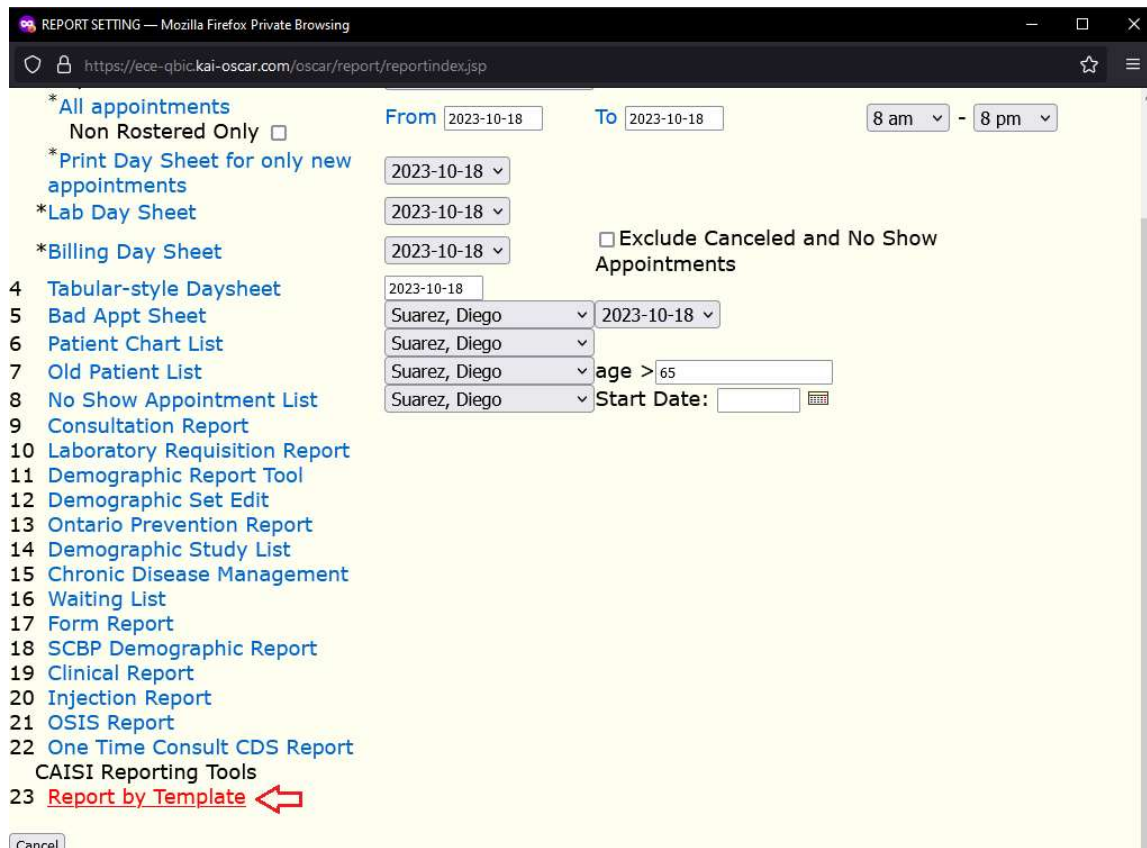
1. Asthma Super Query | 2020-10-11
2. COVID-19 Search query: At-risk - Version 1.0
3. COVID-19 Search query: At-risk - Version 1.0.1 TEST
4. COVID-19 Search query: High risk - Version 1.0
5. COVID-19 Search

## Section D: Instructions for Running a Report Template in OSCAR EMR

1. In the main page, select the "Report" option from the top menu.




2. In the new window, select the option "Report by template". Depending on the number of available options, you might need to scroll down to see it.





3. In the report templates window, browse the reports until you find the one you want to run. Click the report title, this will open the report options menu.

Search for single word or text string in the selected section of all active charts  
 Note: This query may take a while to execute...  
 Right-click the Chart No. link and select 'Open Link in New Window' to keep results.

93. [Search for Word or Text in Reminders - Chart URL](#)  
Search Reminders
94. [Validated Asthma Query | 2020-10-11](#)  
Patients 16 and above that have been rx'd an asthma med in the last year AND either have been billed for 493:Dx code (and not 491 292 496 ) OR has asthma in the CPP
95. [Young patients with an incomplete vaccination scheme - ages 2 months to 18 years](#)  
Report template for identifying patients who are between 2 months and 18 years old who have and incomplete vaccination scheme.



4. In this window you will first need to select the provider you want to run the report for and then click the "Run Query" button.

Report	Report By Template
<a href="#">Add Template</a> <b>Select a template:</b> <a href="#">Main Page</a> 1. <a href="#">ASCVD search</a> 2. <a href="#">Asthma Super Query   2020-10-11</a> 3. <a href="#">COVID-19 Search query: At-risk - Version 1.0</a> 4. <a href="#">COVID-19 Search query: At-risk - Version 1.0.1 TEST</a> 5. <a href="#">COVID-19 Search query: High risk - Version 1.0</a> 6. <a href="#">COVID-19 Search query: High risk -</a>	<p><b>Young patients with an incomplete vaccination scheme - ages 2 months to 18 years</b>            Report template for identifying patients who are between 2 months and 18 years old who have and incomplete vaccination scheme.</p> <div> <p><b>Step 1:</b> Provider Number <span>Alexander, Ted(3)</span> </p> <p><b>Step 2:</b> Generate Query <span>Run Query</span> <span>Export to CSV</span> <span>Export to XLS</span></p> <p><a href="#">View Template XML</a> <a href="#">Edit Template</a> <a href="#">Delete Template</a> <a href="#">Export Template to K2A</a></p> </div> 

5. In the results window, you will see a table with the query results. Below it, there are buttons to export the table as a .csv or .xls file. After clicking one, the file will be automatically downloaded. Depending on the web browser, a message or pop up may appear, however if nothing showed up, the files are downloaded to the “Downloads” pc folder

(note: the screenshot below is just for reference, the report template has different results columns that match the search criteria listed in section B)

**Select a template:**

- ASCDV Search
- Asthma Super Query
- COVID-19 Search query: At-risk - Version 1.0
- COVID-19 Search query: At-risk - Version 1.0.1 TEST
- COVID-19 Search query: High risk - Version 1.0
- COVID-19 Search query: High risk - Version 1.0.1 TEST
- COVID-19 Search query: Highest risk -

Report template for identifying patients who are overdue for measles vaccine.

Hide/Show Query

Patient ID	Last Name	First Name	Birthdate	Age	MMR times done	MMR Last Done	MMRV times done	MMRV Last Done
6	TEST	DANIKA	1986-04-29	37	0	Never done	0	Never done
15	TEST	ASTHMA	1975-05-03	48	0	Never done	0	Never done
33	CHILDREN	WOW	2011-02-02	12	0	Never done	1	2024-04-17 23:06:00

<-- Back    Print

Export to CSV    Export to XLS