

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

## Overview

In partnership with Region of Waterloo Public Health, Amplify Care has developed a set of immunization searches for **Telus PS Suite 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 Search in PS Suite
- D. Instructions for Running a Search in PS Suite

## 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 TELUS PSS EMR search capabilities, which include: The EMR is unable to distinguish between high and low doses of the DTAP-IPV-Hib and the search is unable to identify intervals between doses.

## 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 TELUS v1.0**
2. **ISPA specific search set:** There are a total of 9 searches in this package. Please import all the searches listed below. Only the master search (ISPAOverdueMasterSearch) needs to be run to pull a final list of patients. The master search automatically references the 8 individual sub-searches listed below.

Individual Sub-Searches	Notes
<b>ISPAOverdue4-7DiphtheriaTetanusPertusisandPolioandHiB</b>	Ages =4 and <7 and <4 doses of Diphtheria, Tetanus, Pertussis, Polio, and Hib
<b>ISPAOverdue7-18DiphtheriaTetanusPertusisandPolioanHiB</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 includes: if birthyear 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>ISPAOverdue4-7MMR</b>	Ages $\geq 4$ and < 7 and <1 dose of Measles, Mumps, Rubella
<b>ISPAOverdue7-18MMR</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 six years. Therefore, criteria includes: if birthyear is <del>2007</del> (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

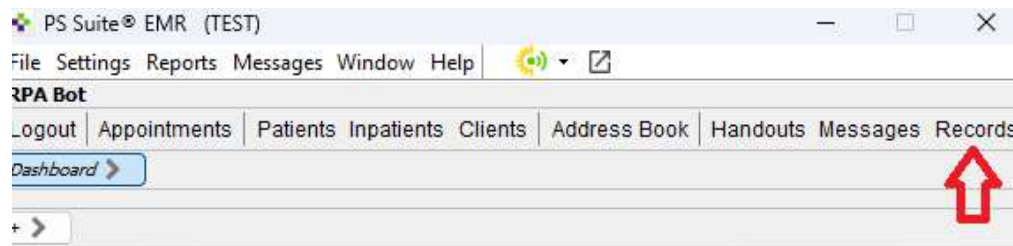
<b>ISPAOverdue4-7Varicella</b>	Ages =4 and <7 and <1 dose of Varicella
<b>ISPAOverdue7-18Varicellawith2010criteria</b>	<p>The search is looking for patients who are age <math>\geq 7</math> have birth year <math>\geq 2010</math> and end of grade 12</p> <p>The logic includes looking for birth year + school 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.</p> <p>After identifying the in-school cohort, we further narrow the search to patients born in 2010 or later. Therefore, the criteria include:</p> <p>if birthyear 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 <math>\geq 2010</math> and &lt; 2 doses of Varicella</p>
<b>ISPAOverdueMenC-Men-C-ACYW4-Grade12</b>	<p>The search is looking for two groups:</p> <ul style="list-style-type: none"> <li>-patients between age <math>\geq 4</math> and grade 7</li> <li>-Patients between grade 8 and grade 12</li> </ul> <p>(Note: 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 2012 or after for 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.</p> <p>Therefore, criteria include:</p> <p>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 &lt; 1 dose of Men C-C and &lt;1 dose of Men-C-ACYW OR If birthyear 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 &lt;1 dose of Men-C-ACYW</p>
<b>ISPAOverdue4-18TetanusDiphtheriaPertusis</b>	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

	<p>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.</p> <p>Therefore, criteria includes:</p> <p>if birthyear 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.</p> <p>and</p> <p>&gt;10 years (3562 days) since their last dose of Tetanus/Pertussis/Diphtheria</p>
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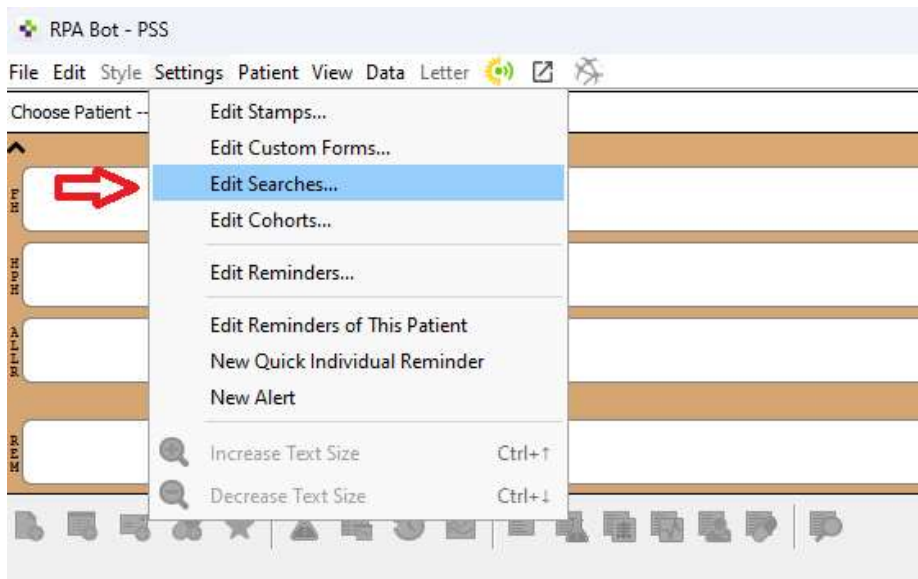
For any issues related to the installation or running of the search, please feel free to direct your queries to [emrtools@amplifycare.ca](mailto:emrtools@amplifycare.ca).

## Section C: Instructions for Importing a search in PS Suite

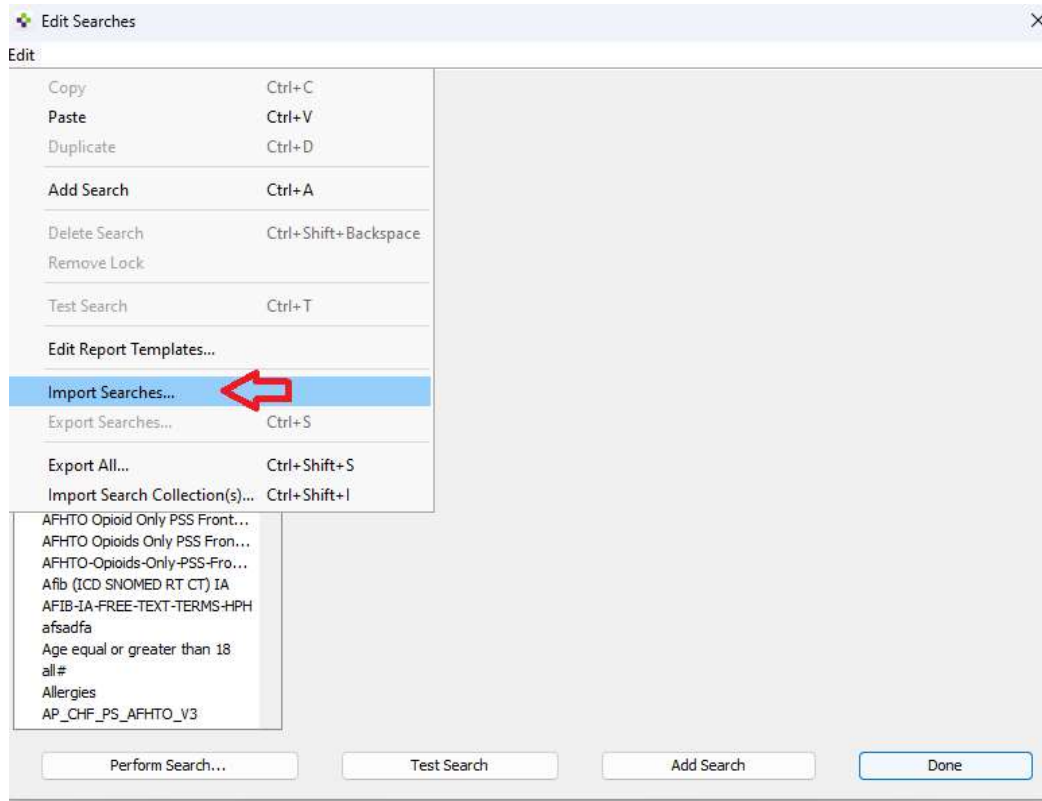
1. Navigate to the "Records" window.



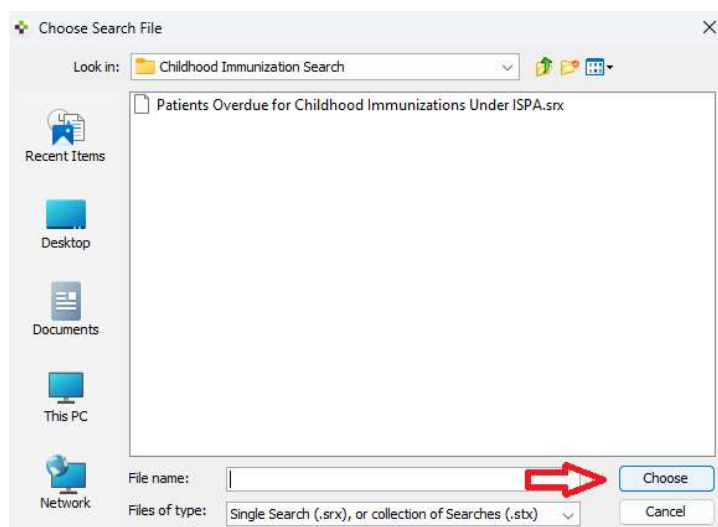
2. Click on "Settings" and select "Edit Searches".



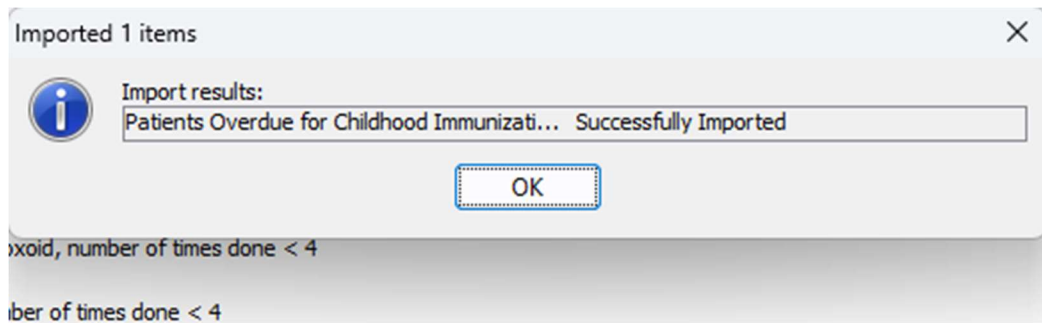
3. Click on “Edit” and select “Import Searches”



4. Navigate to the file location where you have saved the unzipped search collection. Highlight the search collection, and then click “Choose”.

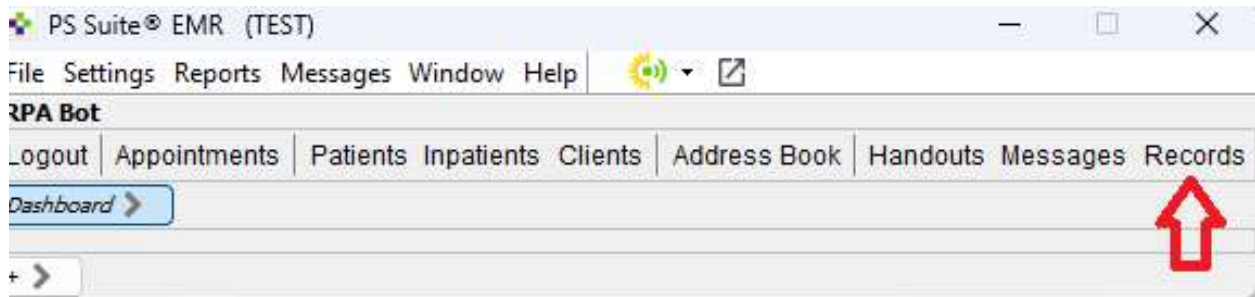


5. A pop-up will display when search is successfully imported into the EMR.



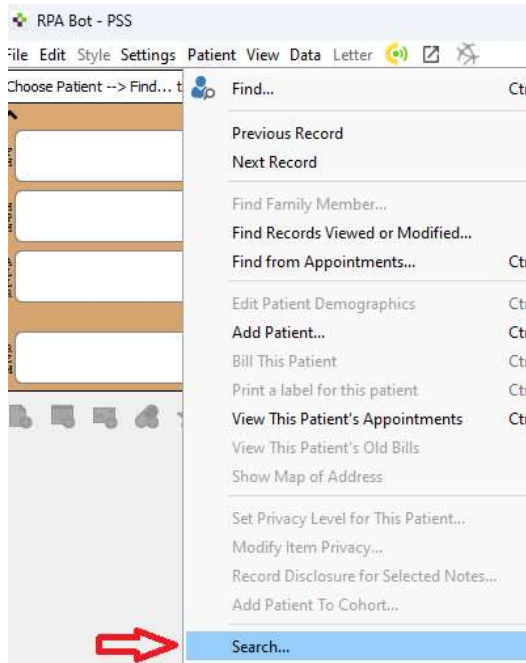
## Section D: Instructions for Running a Search in PS Suite

1. Navigate to the "Records" window.

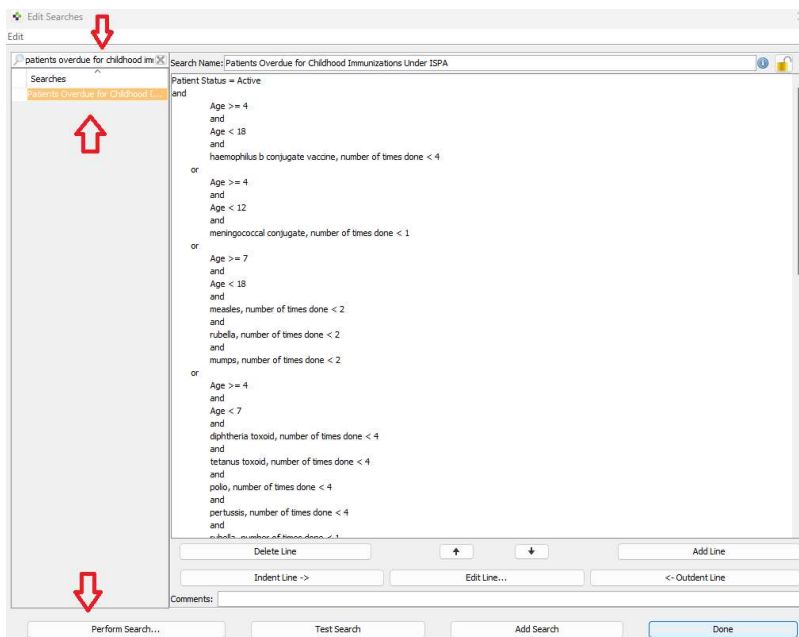




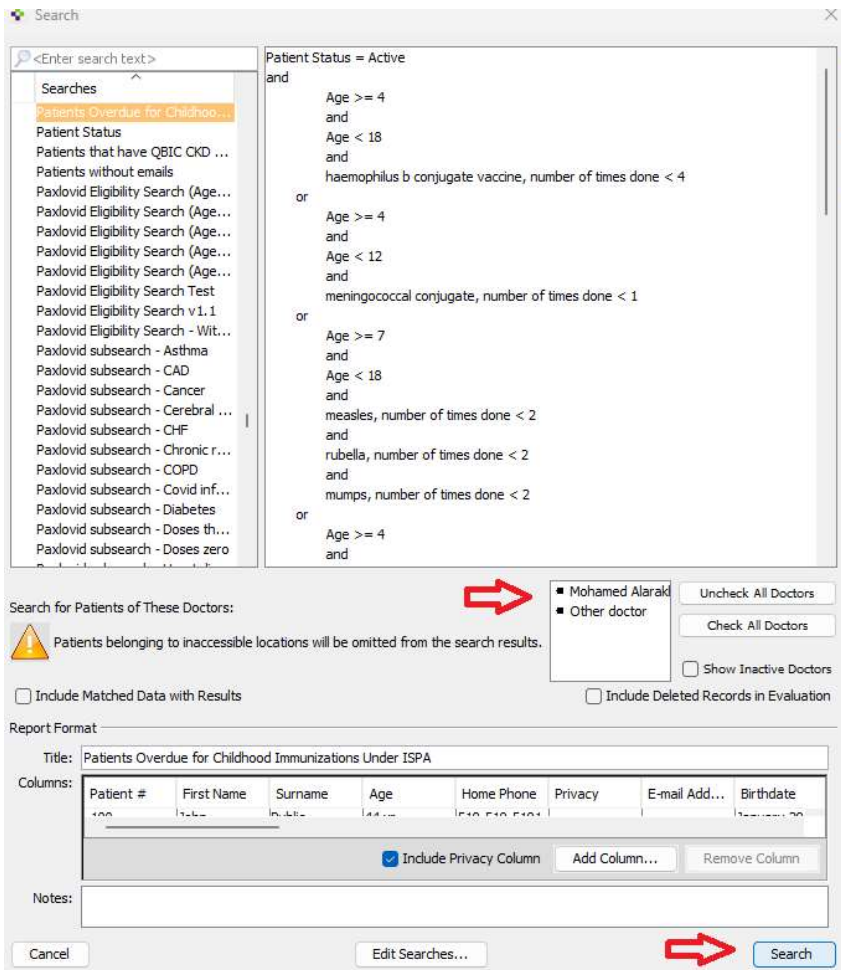
- Click on the "Patient" menu and select "Search".



- Enter the name of the search, select, and select "Perform Search".



4. Select the appropriate provider from the list and click "Search". Search results will appear in another window.



Search

<Enter search text>

Searches

- Patients Overdue for Childhood Immunizations Under ISPA
- Patient Status
- Patients that have Q8IC CKD ...
- Patients without emails
- Paxlovid Eligibility Search (Age...
- Paxlovid Eligibility Search (Age...
- Paxlovid Eligibility Search (Age...
- Paxlovid Eligibility Search (Age...
- Paxlovid Eligibility Search (Age...
- Paxlovid Eligibility Search Test
- Paxlovid Eligibility Search v1.1
- Paxlovid Eligibility Search - Wit...
- Paxlovid subsearch - Asthma
- Paxlovid subsearch - CAD
- Paxlovid subsearch - Cancer
- Paxlovid subsearch - Cerebral ...
- Paxlovid subsearch - CHF
- Paxlovid subsearch - Chronic r...
- Paxlovid subsearch - COPD
- Paxlovid subsearch - Covid inf...
- Paxlovid subsearch - Diabetes
- Paxlovid subsearch - Doses th...
- Paxlovid subsearch - Doses zero

Patient Status = Active

and

Age >= 4

and

Age < 18

and

haemophilus b conjugate vaccine, number of times done < 4

or

Age >= 4

and

Age < 12

and

meningococcal conjugate, number of times done < 1

or

Age >= 7

and

Age < 18

and

measles, number of times done < 2

and

rubella, number of times done < 2

and

mumps, number of times done < 2

or

Age >= 4

and

Search for Patients of These Doctors:

Patients belonging to inaccessible locations will be omitted from the search results.

☐ Include Matched Data with Results

☐ Include Deleted Records in Evaluation

Report Format

Title: Patients Overdue for Childhood Immunizations Under ISPA

Columns:

Patient #	First Name	Surname	Age	Home Phone	Privacy	E-mail Add...	Birthdate
106	Tara	Tara	16 yr	123-456-7...			Jan 6, 2008
108	Heather	Test	11 yr				Sep 9, 2012

☒ Include Privacy Column

Add Column... Remove Column

Notes:

Cancel Edit Searches... Search

Patients Overdue for Childhood Immunizations Under ISPA

Report

Pati...	First Name	Surname	Age	Home Ph...	Privacy	E-mail Address	Birthdate	Dose(s) of ha...	Date of lates...	Dose(s) o
106	Tara	Tara	16 yr	123-456-7...			Jan 6, 2008	0		0
108	Heather	Test	11 yr				Sep 9, 2012	1	Jun 7, 2018	2