RESOURCE AND PATIENT MANAGEMENT SYSTEM

Immunization Tracking System

(BI)

Addendum to User Manual

Version 8.5 Patch 24
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Office of Information Technology
Division of Information Resource Management

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1.0   Introduction

Please review these changes and add a copy of them to any printed documentation your site may be using for the Indian Health Service (IHS) Immunization Tracking System (BI namespace) version 8.5 (v8.5) component. These changes will be integrated into future versions of the software and user manuals. These changes will no longer be considered an addendum at the time of the next version release.

This addendum only provides written guidance on changes made in the patch that are relevant to the user. To see a list of all changes please refer to the patch notes for each of the respective patches.

1.1   Summary of Changes

A new COVID-19 report is added to the Reports Menu. This is a patient-based report which provides statistics on COVID-19 immunizations. An Immunocompromised Section is included in the report to denote statistics on Immunocompromised patients. Site parameter 18, High-Risk Factor Check #4 "COVID Immunocompromised" must be enabled to display data in this section.

2.0   Patch 24 Changes

2.1   COVID Report (COV)

The COVID Report provides statistics on COVID-19 immunizations. This is a patient-based report. For example, a patient who receives 5 booster doses counts as one patient, in their age column. The population of patients reviewed includes those patients from less than 2 years to 75 years and older.

Criteria

COVID-19 vaccine: For all patients, report looks for documentation of 1 and 2 doses in a 2-dose series and 1 dose in a 1-dose series. It also looks for a 3rd dose for immunocompromised patients and non-immunocompromised patients. For immunocompromised patients, the data is pulled from the following taxonomies: BQI Cancer Dxs, BQI Transplant Dxs, BQI Immune Deficiency Dxs, ATX Immunosuppress RxNorm and ATX Immunosuppress Drugs. This includes any of the following CVX codes: 207, 208, 212, 217,218, 219, 221, 225, 226, 227, 228, 500.

The Total Fully Vaccinated row of the report includes patients who have received 2 doses from a 2-dose series and 1 dose from a 1-dose series of a COVID-19 vaccine.

```
Active Users (2+ visits, 3 yrs)
-------------------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
-------------------------------------------------------------------------------
                |             Age in years on 04/07/2022           |
                |-----------------------------------------------------| Totals
                |       Pediatric -  Adolescent  |   Adult Population  |
                |    <2     2-4    5-11   12-17 | 18-49   50-64    65+ |
================================================================================
Denominator  |    0       3      6      15      33      17      14 |     88
-------------------------------------------------------------------------------
Total Fully  |    0       0      1       1       3       2       1 |      8
Vaccinated   |   0%      0%     17%     7%      9%      12%     7%|      9%
             |
+      To view patient rosters, select a group below:
N  NOT Current            C   Current            B   Both Groups
Select Action:+//
```

Figure 2-1: Total Fully Vaccinated row

There is another row that summarizes the total fully vaccinated in two age groups from 0 to 17 years and from 18 to 75+.

```
Active Users (2+ visits, 3 yrs)
----------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
----------------------------------------------------------------------
            |          Age in years on 04/07/2022          |
            |------------------------------------------------| Totals
            |    Pediatric - Adolescent  |  Adult Population |
            |   <2    2-4   5-11  12-17  | 18-49  50-64  65+ |
============|==================================================|========
Denominator |    0     3      6    15      33     17    14 |     88
------------|--------------------------------------------------|--------
By Category | Ages 0-17 yrs:        2 |  Ages 18-75+ yrs:   6 |
            |                      8%|                    9%|
------------|--------------------------------------------------|--------
+      To view patient rosters, select a group below:
N  NOT Current              C  Current              B  Both Groups
Select Action:+//
```

Figure 2-2: Totally Fully Vaccinated for two age groups row

There is an Unvaccinated row that includes patients who have not received any doses of a COVID-19 vaccine.

```
Active Users (2+ visits, 3 yrs)
----------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
----------------------------------------------------------------------
            |          Age in years on 04/07/2022          |
            |------------------------------------------------| Totals
            |    Pediatric - Adolescent  |  Adult Population |
            |   <2    2-4   5-11  12-17  | 18-49  50-64  65+ |
============|==================================================|========
Denominator |    0     3      6    15      33     17    14 |     88
------------|--------------------------------------------------|--------
Unvaccinated|    0     2      5    13      29     15    13 |     77
            |   0%   67%    83%   87%     88%    88%   93%|    88%
------------|--------------------------------------------------|--------
+      To view patient rosters, select a group below:
N  NOT Current              C  Current              B  Both Groups
Select Action:+//
```

Figure 2-3: Unvaccinated row

The Booster received row includes patients who have received a 3rd dose or 4th dose of a COVID-19 vaccine.

```
Active Users (2+ visits, 3 yrs)
----------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
----------------------------------------------------------------------
              |         Age in years on 04/07/2022        |
              |-------------------------------------------| Totals
              |   Pediatric - Adolescent |  Adult Population  |
              |  <2    2-4   5-11  12-17 | 18-49  50-64   65+ |
======================================================================
Denominator  |   0     3     6     15     33     17     14 |    88
----------------------------------------------------------------------
Boosters     |   0     0     0      0      1      0      0 |     1
Received     |  0%    0%    0%     0%     3%     0%     0% |    1%
----------------------------------------------------------------------
+        To view patient rosters, select a group below:
N  NOT Current           C  Current              B  Both Groups
Select Action:+//
```

Figure 2-4: Booster Received row

The Contraindications row includes those patients for which a reason was documented and caused to be eliminated from the forecast to receive a COVID-19 vaccine.

```
Active Users (2+ visits, 3 yrs)
----------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
----------------------------------------------------------------------
              |         Age in years on 04/07/2022        |
              |-------------------------------------------| Totals
              |   Pediatric - Adolescent |  Adult Population  |
              |  <2    2-4   5-11  12-17 | 18-49  50-64   65+ |
======================================================================
Denominator  |   0     3     6     15     33     17     14 |    88
----------------------------------------------------------------------
Contra-      |   0     0     0      0      0      1      2 |     3
indications  |  0%    0%    0%     0%     0%     6%    14% |    3%
----------------------------------------------------------------------
+        To view patient rosters, select a group below:
N  NOT Current           C  Current              B  Both Groups
Select Action:+//
```

Figure 2-5: Contraindications row

The Refusals row includes those patients for which a reason was documented, but allows the COVID-19 vaccine to forecast out for the patient.

```
Active Users (2+ visits, 3 yrs)
------------------------------------------------------------------------
Beneficiary Type: INDIAN/ALASKA NATIVE
------------------------------------------------------------------------
             |        Age in years on 04/07/2022            |
             |----------------------------------------------| Totals
             |  Pediatric -  Adolescent |  Adult Population  |
             |  <2     2-4    5-11  12-17 | 18-49   50-64   65+ |
=========================================================================
Denominator  |   0      3      6     15      33      17    14 |    88
------------------------------------------------------------------------
Refusals     |   0      0      2      1       6       2     4 |    15
             |  0%     0%    33%     7%      18%     12%   29%|    17%
------------------------------------------------------------------------
+            To view patient rosters, select a group below:
N  NOT Current          C  Current              B  Both Groups
Select Action:+//
```

Figure 2-6: Refusal row

There is an Immunocompromised Section included in the report; it looks for documentation of the additional dose after completing the 1-dose series and 2-dose series and the patient is eligible to receive it due to a severely weakened immune system. The unvaccinated row in this section includes immunocompromised patients only who have not received any dose of the COVID-19 vaccine. If a booster dose is warranted, then it will display in this section and the general population but will not be culminative. This means if a patient receives 5 booster doses, they will count as one patient, in their age column, having received one or more boosters.

```
                |   * IMMUNOCOMPROMISED Section *
                |----------------------------------------------
                |     Age in years on 04/07/2022         |
                |----------------------------------------------|  Pregnancy*
                |  12-17   18-49   50-64    65+ |  Totals |  Any Age
----------------------------------------------------------------------------------
Denominator |     6       3       3       1 |    13   |      0
----------------------------------------------------------------------------------
1st of a 2- |     1       1       0       0 |     2   |      0
Dose Series |    17%     33%      0%      0%|    15%  |     0%
----------------------------------------------------------------------------------
Completed 2-|     1       1       0       0 |     2   |      0
Dose Series |    17%     33%      0%      0%|    15%  |     0%
----------------------------------------------------------------------------------
Completed 1-|     0       1       1       0 |     2   |      0
Dose Series |     0%     33%     33%      0%|    15%  |     0%
----------------------------------------------------------------------------------
Total Fully |     1       2       1       0 |     4   |      0
Vaccinated  |    17%     67%     33%      0%|    31%  |     0%
----------------------------------------------------------------------------------
Additional  |     0       1       0       0 |     1   |      0
Dose Rcvd   |     0%     33%      0%      0%|     8%  |     0%
----------------------------------------------------------------------------------
Boosters    |     0       1       0       0 |     1   |      0
Received    |     0%     33%      0%      0%|     8%  |     0%
----------------------------------------------------------------------------------
Unvaccinated|     5       1       2       1 |     9   |      0
            |   100%     33%     67%    100%|    69%  |     0%
----------------------------------------------------------------------------------
```

Figure 2-7: Immunocompromised section

The patients in this report can be grouped and displayed the following ways:

Not Current (Not Age Appropriate), Current, or Both Groups (see Figure 2-8). Patients who have are fully vaccinated are considered "Current" in this report. Patients who have not received a dose are "Not Current".

```
                              PARKER HOSP
               *   Standard COVID Immunization Report   *
                        Report Date: 04/07/2022
                        Ending Date: 04/07/2022

 Active Users (2+ visits, 3 yrs)
 ----------------------------------------------------------------------
 Beneficiary Type: INDIAN/ALASKA NATIVE
 ----------------------------------------------------------------------
              |          Age in years on 04/07/2022              |
              |---------------------------------------------------|
              |    Pediatric  -  Adolescent  |  Adult Population  |
              |   <2     2-4    5-11   12-17  | 18-49   50-64   65+ |
 -------------------------------------------------------------------
 Denominator  |    1      3      7      10     |  43      21     17 |
 -------------------------------------------------------------------
 1st of a 2-  |    0      0      1      0      |   4       0      0 |
 Dose Series  |   0%     0%     14%    0%      |   9%      0%     0%|
 +-----To view patient rosters, select a group below:-----------+
 N   NOT Current              C   Current              B   Both Groups
 Select Action:+//
```

Figure 2-8: Displaying group of Not Current, Current, or Both Groups

After making changes to either Not Current or Current, the user can update the existing report without the need of starting from scratch.

When you select View COVID Report, a prompt appears at the bottom of the screen that allows you to display and edit the patient included in the report

Report Parameters

The COVID Report screen, allows you to adjust the report to your needs (Figure 2-9). There are four parameters on the screen that you may use to select a specific group of patients. To change an item, enter its left column number (1-5) at the prompt on the bottom of the screen. Type a single question mark (**?**) at any prompt for more information about the parameter you are changing.

Once you have the parameters set to retrieve the group of patients you want, select **V** to view the COVID Report or **P** to print it.

```
                    COVID IMMUNIZATION REPORT

    1 - Ending Date.................: 04/07/2022

    2 - Community...................: ALL

    3 - Health Care Facility.......: ALL

    4 - Case Manager...............: ALL

    5 - Beneficiary Type...........: INDIAN/ALASKA NATIVE

    6 - Patient Population Group...: Active Users (2+ visits, 3 yrs)



          Select a left column number to change an item.
V  View COVID Report      P  Print COVID Report      H  Help

Select Action:Quit// █
```

Figure 2-9: Example of the COVID report parameters

If it customarily takes a long time for your computer to prepare this report, it may be preferable to print and queue the report to a printer, rather than viewing it on screen. (This would avoid tying up your screen while the report is being prepared).

Ending Date (1): The report compiles immunization rates as of the date entered. The system interprets most forms in which you type the date. If you type in only a month and a year, the system assigns the last day of the month for the report.

Community (2): If you select communities, only patients whose current community matches one of the communities selected is included in the report. Current Community refers to Item 6 on page 1 of the RPMS Patient Registration package.

Health Care Facility (3): If you select Health Care Facilities, only patients who have active chart numbers at a selected facility are included in the report.

Case Manager (4): If you select specific Case Managers, only patients who have the selected Case Managers are included.

Beneficiary Types (5): If you select Beneficiary Types, only patients whose beneficiary type is one of those you select to include in the report. Beneficiary Type refers to Item 3 on page 2 of the RPMS Patient Registration package.

Patient Population Group (6): You can select from 4 different population groups for the COVID report: Active in the Immunization Registry, Registered Patients (All)– this includes all patients registered in RPMS; User Population – patients with 1 visit/last 3 years, or Active Clinical (2 visits/last 3 years).

Appendix A   COVID Report

```
                *   Standard COVID Immunization Report   *
                       Report Date: 04/07/2022
                       Ending Date: 04/07/2022

 Active Users (2+ visits, 3 yrs)
 -----------------------------------------------------------------------
 Beneficiary Type: INDIAN/ALASKA NATIVE
 -----------------------------------------------------------------------
              |            Age in years on 04/07/2022            |
              |-------------------------------------------------| Totals
              |   Pediatric -   Adolescent  |  Adult Population  |
              |   <2     2-4    5-11   12-17 |  18-49  50-64   65+ |
 =======================================================================
 Denominator |    0       3      6      15       33     17     14 |    88
 -----------------------------------------------------------------------
 1st of a 2- |    0       1      1       2        2      0      0 |     6
 Dose Series |   0%      33%    17%     13%       6%     0%     0%|    7%
 -----------------------------------------------------------------------
 Completed 2-|    0       0      1       1        1      0      0 |     3
 Dose Series |   0%      0%     17%      7%       3%     0%     0%|    3%
 -----------------------------------------------------------------------
 Completed 1-|    0       0      0       0        2      2      1 |     5
 Dose Series |   0%      0%     0%       0%       6%    12%     7%|    6%
 -----------------------------------------------------------------------
 Total Fully |    0       0      1       1        3      2      1 |     8
 Vaccinated  |   0%      0%     17%      7%       9%    12%     7%|    9%
 -----------------------------------------------------------------------
 By Category |   Ages 0-17 yrs:       2 |   Ages 18-75+ yrs:      6 |
             |                      8%|                          9%|
 -----------------------------------------------------------------------
 Boosters    |    0       0      0       0        1      0      0 |     1
 Received    |   0%      0%     0%       0%       3%     0%     0%|    1%
 -----------------------------------------------------------------------
 Unvaccinated|    0       2      5      13       29     15     13 |    77
             |   0%      67%    83%     87%      88%    88%    93%|   88%

 -----------------------------------------------------------------------
 Contra-     |    0       0      0       0        0      1      2 |     3
 indications |   0%      0%     0%       0%       0%     6%    14%|    3%
 -----------------------------------------------------------------------
 Refusals    |    0       0      2       1        6      2      4 |    15
             |   0%      0%     33%      7%      18%    12%    29%|   17%
 -----------------------------------------------------------------------
             |   * IMMUNOCOMPROMISED Section *
 -----------------------------------------------------------------------
             |     Age in years on 04/07/2022           |
             |-----------------------------------------| Pregnancy*
             |  12-17   18-49    50-64     65+ |  Totals |  Any Age
 -----------------------------------------------------------------------
 Denominator |    6       3        3       1 |     13  |     0
 -----------------------------------------------------------------------
 1st of a 2- |    1       1        0       0 |      2  |     0
 Dose Series |   17%     33%      0%      0%|     15% |     0%
 -----------------------------------------------------------------------
 Completed 2-|    1       1        0       0 |      2  |     0
 Dose Series |   17%     33%      0%      0%|     15% |     0%
 -----------------------------------------------------------------------
 Completed 1-|    0       1        1       0 |      2  |     0
 Dose Series |   0%      33%      33%     0%|     15% |     0%
 -----------------------------------------------------------------------
 Total Fully |    1       2        1       0 |      4  |     0
 Vaccinated  |   17%     67%      33%     0%|     31% |     0%
 -----------------------------------------------------------------------
 Additional  |    0       1        0       0 |      1  |     0
 Dose Rcvd   |   0%      33%      0%      0%|      8% |     0%
 -----------------------------------------------------------------------
 Boosters    |    0       1        0       0 |      1  |     0
 Received    |   0%      33%      0%      0%|      8% |     0%
 -----------------------------------------------------------------------
 Unvaccinated|    5       1        2       1 |      9  |     0
             |  100%     33%      67%    100%|     69% |     0%
 -----------------------------------------------------------------------
 *NOTE: Patients in the Immunocompromised and Pregnancy sections of the report
        are included in the statistics of the Adult General Population section.
 -----------------------------------------------------------------------
 *NOTE: The Pregnancy section of the report is not yet functional.
 -----------------------------------------------------------------------
```

Figure A-1: Example of a COVID report

Glossary

ATX

A namespace for Taxonomy. Taxonomies stores a list of related ICD diagnosis codes for future use; allows the creation of diagnosis and procedure taxonomies in Q-Man and other packages.

BQI

A namespace for iCare Population Management GUI

Case Manager

A user of the RPMS Immunization Module responsible for managing patients. This includes immunization tracking and recall, entering or editing patient data, selecting appropriate letters, scanning for delinquent needs, and more.

Contraindication

A symptom or condition that makes a particular procedure or treatment inadvisable. This may prevent the patient from receiving a forecast of the specified vaccine that is tied to it.

Refusal

A patient or parent/guardian directly communicating that they choose not to be treated on a specific date despite the availability of the specified service. For vaccine considerations, this will not prevent forecasting to occur for a patient.

RxNorm

A unique identifier for drugs and ingredients. It is a crosswalk between other terminologies. It is produced by the National Library of Medicine

Acronym List

Acronym	Term Meaning
IHS	Indian Health Service
RPMS	Resource and Patient Management System
COVID	Coronavirus Disease

Contact Information

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