Manitoba Public Health Information Management System

Report User Guide

MB6064B

AEFI Workload and Surveillance Report

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Definitions for Report User Guides:

a. “Authorized Organization” means an organization (an RHA, a First Nation, or other organization) with whom Manitoba has entered into an agreement in order to facilitate access to PHIMS;
b. "Authorized User" means an employee, agent or contractor of an Authorized Organization (the employer) permitted to access to PHIMS.
c. “Service Delivery Location” (SDL) means a public health office or a Community Health Centre
d. “User Role” means the specific role or roles to which an Authorized User is assigned and which prescribes what Information the Authorized User is permitted to access, use and disclose.

Data Type		Explanation
Aggregate, no identifiable data	=	Summary data with no client identifiers
Aggregate, no identifiable data, but possible small population sensitivity or Provider / Org Sensitivity	=	Summary data with no client identifiers However there are sensitivities in the data where small numbers could identify clients, communities or providers
Line Level, Single client identifiable data	=	Includes client identifiers of an individual client
Line level, Multi client identifiable data	=	Includes client identifiers of a list of multiple clients

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1. Background:

1.1. Data Access Scope for Immunization in PHIMS

In Manitoba, Authorized Users ("users") of the immunization module have access to immunization records for all Manitobans. This was decided as a result of a number of considerations, including:

- Clients can receive immunization services at service delivery locations other than their default public health office, either within or outside their home health region
- School age clients may attend schools outside their home region where immunization services are delivered
- Cases and outbreaks of vaccine preventable diseases also cross regional boundaries and may involve multiple public health provider organizations.

1.2. Privacy/Data Sensitivity

This report is set at the Manitoba level. This means that users who have access to this report can "view" data from all regions in Manitoba. Although the report includes data at the level of the individual, it only contains the PHIMS client ID, birth date, and gender. Details of the adverse event following immunization are also contained in the report.

The number of users who have access to this report is limited to a small set of users.

1.3. Permitted Disclosures

- No disclosures permitted

Note re Permitted Disclosures - In general, Standard Reports in PHIMS have been designed for internal use for day to day public health and health service delivery, limited to Authorized Users of Authorized Organizations. Authorized Users may only disclose information from the report that relates to their Designated Health Region. For First Nation Authorized Organizations - sites that have entered into a Bridging Service ISA, an Authorized User (of the Bridging Organization) generating the reports may provide Standard Reports to a FN Authorized User.

1.4. Data Stewardship

Users who have access to this report require background in report generation and basic epidemiology, and are responsible for the following:

- Users only run this report for their designated Health Region, or on a need to know basis.
- The data produced are to be validated and interpreted prior to disseminating any information produced from the report. The output requires contextual interpretation based on the filters used and timing of when the report was generated.
- The data are intended to be used by public health practitioners for AEFI workload management and vaccine safety program monitoring and surveillance. Data are not to be used to communicate about vaccine safety, nor are the data

to be made available to the public without prior consultation with the Health Region and Manitoba Health.
- Users ensure that all data are managed securely and appropriately according to organizational guidelines especially when the report(s) identifies small populations.

Users who have access to this report will be subject to PHIMS audits documenting when the user has generated the report.

2. Purpose

The **AEFI Workload and Surveillance Report** is required to monitor the AEFI submission process to ensure that all AEFI's entered into the system by MHSAL and Regions are reviewed and completed. This report identifies AEFI's that have been saved during a selected timeframe and their status. It may also be used to prioritize AEFI review by reviewing fields which indicate the severity of the reaction.

The report also functions as a vaccine safety surveillance report by allowing a search of AEFI's during a selected timeframe based on selected parameters. Details of each unique AEFI report are presented on the report. Users are able to filter the report to select the AEFI's of specific interest, such as lot #, type of reaction.

2.1. Population Included in the Report

The populations included in this report are:

- all clients in PHIMS's client registry, based on the Manitoba Health insured benefits registry.
- active and inactive clients

2.2. Recommended uses for this report

The **AEFI Workload and Surveillance Report** may be produced for a number of reasons:

- AEFI workload monitoring
  - Regional/FNIHB users responsible for AEFI monitoring would produce the report regularly (e.g. daily or weekly) to monitor AEFI report completion. Follow-up would be required for draft reports that are not completed, or reports submitted for review that require MOH recommendations.
  - MHSAL AEFI coordinator would produce the report to determine which reports are ready to send to PHAC, or require central review.
- AEFI surveillance
  - MHSAL AEFI coordinator may produce a report based on selected parameters in the event of a vaccine safety concern.
  - Routine AEFI surveillance reports may be generated.

3. Selecting the Report Parameters

When running a report you must select specific parameters. Some parameters are required and some are optional.

Selecting the Correct Parameters to Generate the Required Output

You can generate this report from the "**Reporting & Analysis**" section in PHIMS.

This is a statistical report under **Immunization: Surveillance Reports**

- Click on **Reporting & Analysis** (left navigation bar) or the **Reporting** tile on the Dashboard
- Open the Immunization Report Folder by expanding the collapsible panel.
- Scroll down to Surveillance Reports and select **MB6064B-AEFI Workload and Surveillance Report** *hyperlink*
- Select the date range for the AEFI report date (required)
- Select the AEFI status from the list you are interested in (required)
    - Note: for workload reports, select all AEFI statuses
- Select Filters that are optional:
    - AEFI Health Region
        - AEFI's are referred to regions for review based on the client's registered address. Regions/FNIHB should select their respective region.
    - Date range for the immunizations of interest (optional)
    - Select the immunizing antigen you are interested in (optional)
        - This would be selected for investigating a vaccine safety concern, or if you are interested in an AEFI surveillance report for a particular vaccine.
    - If an antigen is selected, select the immunizing agent(s) you are interested in (optional)
    - Eligible for PHAC reporting
        - This indicates that the AEFI report has been reviewed by the provincial Vaccine Safety Coordinator and can be sent to PHAC
    - Date range for Eligible for PHAC reporting
        - This selects a time period to identify all AEFI reports that should be sent to PHAC

Parameter Name	Data Type	Description	Validation
Date Reported From	Date		Required
Date Reported to	Date		Required

AEFI Status	Multi-select List	System-generated value which reflects the status of the report submission. Can select all. • Consultation requested (if further consultation required from provincial MOH) • Deleted (entered in error and deleted by user) • Draft (Saved as draft, not submitted) • Follow up complete (follow up after next dose as requested in recommendations competed) • Information required (Reviewed and requested for more info) • Review complete (Reviewed and gave recommendation, report completed) • Review complete follow-up required(follow up after next dose of agent requested in recommendations) • Review in progress (Started review but has not completed review, resubmitted, or requested for more info) • Submitted for review (Submitted but review not complete)	Required
AEFI Organization	Multi-select List	The health region assigned to the AEFI based on the client's address as verified by the user entering the AEFI in PHIMS.	Optional
Immunization Date From	Date		Optional
Immunization Date To	Date		Optional
Antigen	Drop List	The name of the antigen that the client was immunized for. Note that for some diseases, there may be more than one antigen if there are different strengths or formulations of the vaccine (e.g. diphtheria, pneumococcal). You can select multiple antigens.	Optional
Immunizing Agent	Multi-select List	If an antigen is selected, you must select one or more immunizing agents associated with the antigen. All AEFI reports that contain the selected immunizing agent(s) will display, including those that also have other immunizing agents in the same report.	Optional
Eligible for PHAC Reporting	Drop list	Blank, no, or yes Indicates that the AEFI report has been reviewed by the provincial Vaccine Safety Coordinator and can be sent to PHAC	Optional
Date Eligible for PHAC Reporting From	Date		Optional
Date Eligible for PHAC Reporting To	Date		Optional

4. Report is assigned to the following roles

MB PUBLIC HEALTH MANAGER / MB CDI PUBLIC HEALTH MANAGER

MB CDI MEDICAL OFFICER

MB EPI ANALYST / MB CDI EPI ANALYST

MB EPI ADMIN

MB CDI MB HEALTH SURVEILLANCE

MB CDI PUBLIC HEALTH COORDINATOR

MB CDI PUBLIC HEALTH NURSE / MB CDI PHN CLOSE

5. Report Description

Report Output: The report will be generated as a Formatted MS Excel Spread sheet

Data Source: Data from the PHIMS Operational Database

Report Data Fields

#	Field Name	Description
Header		
1	Report Title	MB6064B- AEFI Workload and Surveillance Report
2	Date Generated	The date (and time) the report was generated YYYY-MMM-DD
Report Parameters		
3	Date Reported	The date range of the AEFI reports.
4	AEFI Status	List of the AEFI statuses that were selected for the report
5	AEFI Organization	List of the AEFI Health Regions selected. If none selected, will list "no filter".
6	Immunization Date	The selected date range of immunizations. If none selected, will list "no filter"
7	Immunization Agent	If an immunization antigen and agent(s) are selected, the report will list the agent(s) selected. Otherwise it will list "no filter"
8	Eligible for PHAC	Will display "yes" if eligible for PHAC reporting is selected. Otherwise will list "no filter"
9	Date PHAC eligible	Will display the date range for when eligible for PHAC reporting was selected.
Details		
10	Client ID	Displays the PHIMS client ID #
11	Birth Date	Client's date of birth
12	Gender	Client's gender
13	Client Org	The parent organization to which the clients designated service delivery location is associated, based on the client's registered address at the time the report was generated. If the Region cannot be determined, this field will show Unspecified
14	Service Delivery Location	The client's public health office based on their registered address, or the preferred SDL at the time the report was generated.
15	AEFI Health Region	The health region organization that has been selected for the AEFI report.

#	Field Name	Description
16	Event ID	The PHIMS AEFI event ID #
17	Date Reported	The date the AEFI was reported
18	Setting	The office setting of the reporter – public health, physician, hospital, pharmacy, other.
19	AEFI Status	The status of the AEFI report at the time the report was generated
20	Latest Imms Date	The most recent date of administration of the immunizations associated to the report. Most AEFI reports should only have one date. However, if multiple immunizations on different dates are selected, the report will display only the most recent date.
21	Immunization(s)	Immunization agents associated with the AEFI reported. A concatenated list of immunization agents will appear if there is more than one immunization agent.
22	Trade Name	Trade name of the immunization agent. If a trade name has not been recorded, NA will be listed. If there is more than one immunization agent, a concatenated list of trade names will appear in the order that the immunization agents are listed.
23	Vacc Lot	Lot number of the immunization agent. If a lot number has not been recorded, NA will be listed. If there is more than one immunization agent, a concatenated list of lot numbers will appear in the order that the immunization agents are listed.
24	Outcome	The AEFI outcome at time of the report. (*Fatal, Permanent disability/incapacity, Not yet recovered, Fully recovered, Unknown)*
25	Level of Care Req	The highest level of care obtained (*Emergency visit, Non-urgent visit, None, Required hospitalization, Resulted in prolongation of existing hospitalization, Telephone advice from a health professional, Unknown)*
AEFI Event Type		
26	Local Reaction	Indicates whether a local reaction was reported for the AEFI
27	Anaphylaxis	Indicates whether anaphylaxis was reported for the AEFI
28	Other Allergic	Indicates whether an allergic event (not anaphylaxis) was reported for the AEFI
29	Neurologic	Indicates whether a neurologic event was reported for the AEFI
30	Other Event	Indicates whether an event in the "other defined events of interest" category was reported for the AEFI
Recommendations		
31	Rec complete?	"Y" indicates whether a recommendation for future immunizations has been completed. "N" indicates no recommendations have been documented.
32	No Recommendations	Indicates no recommendations were provided. Will be blank if this option has not been selected.
33	No Change	Indicates "No change to immunization schedule" was recommended. Will be blank if this option has not been selected.
34	Expert Referral	Indicates "Expert referral" was recommended. Will be blank if this option has not been selected.
35	Det Antibody Level	Indicates "Determine protective antibody level" was recommended. Will be blank if this option has not been selected.
36	Controlled Setting	Indicates "Controlled setting for next immunization" was recommended. Will be blank if this option has not been selected.
37	No Further Imms	Indicates "No further immunizations" was recommended. Will be blank if this option has not been selected.
38	Follow-up	Indicates "Active Follow-up Next Imms" was recommended. Will be blank if this option has not been selected.
39	Other	Indicates "Other, specify in comments" was recommended. Will be blank if this option has not been selected.
40	PHAC Eligible	If "Eligible for PHAC Reporting" is selected, the date it was selected will be displayed.
Local Details		
41	Infected Abscess	Indicates "Infected Abscess" was reported for the AEFI. Will be blank if this option has not been selected.
42	Sterile Abscess	Indicates "Sterile Abscess" was reported for the AEFI. Will be blank if this option has

#	Field Name	Description
		not been selected.
43	Cellulitis	Indicates "Cellulitis" was reported for the AEFI. Will be blank if this option has not been selected.
44	Nodule	Indicates "Nodule" was reported for the AEFI. Will be blank if this option has not been selected.
45	Reaction crosses joint	Indicates "Reaction crosses joint" was reported for the AEFI. Will be blank if this option has not been selected.
46	Lymphadenitis	Indicates "Lymphadenitis" was reported for the AEFI. Will be blank if this option has not been selected.
47	Other Local	Indicates "Other" local reaction was reported for the AEFI. Will be blank if this option has not been selected.
Neurologic Detail		
48	Meningitis	Indicates "Meningitis" was reported for the AEFI. Will be blank if this option has not been selected.
49	Encephalopathy/ Encephalitis	Indicates "Encephalopathy/Encephalitis" was reported for the AEFI. Will be blank if this option has not been selected.
50	GBS	Indicates "GBS" was reported for the AEFI. Will be blank if this option has not been selected.
51	Bell's Palsy	Indicates "Bell's Palsy" was reported for the AEFI. Will be blank if this option has not been selected.
52	Other Paralysis	Indicates "Other Paralysis" was reported for the AEFI. Will be blank if this option has not been selected.
53	Seizure	Indicates "Seizure" was reported for the AEFI. Will be blank if this option has not been selected.
54	Other Neurologic	Indicates "Other Neurologic" was reported for the AEFI. Will be blank if this option has not been selected.
Other Detail (Other Defined Events of Interest)		
55	Hypotonic-Hyporesponsive Episode	Indicates "Hypotonic-Hyporesponsive Episode" was reported for the AEFI. Will be blank if this option has not been selected.
56	Persistent Crying	Indicates "Persistent Crying" was reported for the AEFI. Will be blank if this option has not been selected.
57	Rash	Indicates "Rash" was reported for the AEFI. Will be blank if this option has not been selected.
58	Intussusception	Indicates "Intussusception" was reported for the AEFI. Will be blank if this option has not been selected.
59	Arthritis	Indicates "Arthritis" was reported for the AEFI. Will be blank if this option has not been selected.
60	Parotitis	Indicates "Parotitis" was reported for the AEFI. Will be blank if this option has not been selected.
61	Thrombocytopenia	Indicates "Thrombocytopenia" was reported for the AEFI. Will be blank if this option has not been selected.
62	Oculo-Respiratory Syndrome	Indicates "Oculo-Respiratory Syndrome" was reported for the AEFI. Will be blank if this option has not been selected.
63	Fever	Indicates "Fever" was reported for the AEFI. Will be blank if this option has not been selected.
64	Unlisted Event	Indicates "Other serious or unexpected event(s) not listed in the form" was reported for the AEFI. Will be blank if this option has not been selected.

6. Report Data Mapping

Records are filtered by:

1. AEFI report date is on or after the [Date reported From] parameter and on or before the [Date reported To] range for AEFI report
2. AEFI Health Organization (The organization selected for the AEFI report)
3. Client has an AEFI record

In the event that no data is retrieved, a blank report is generated and returned to the user.

MB6064B - AEFI Workload and Surveillance

Date Generated: 2022/06/01 11:23:03 am

Report Parameters:

Date Created:	2022-Jan-01 through 2022-Jun-01
Date Reported:	No Filter
AEFI Status:	Consultation requested, Disregard, Does Not Meet Temporal Criteria, Draft, Foll
AEFI Organization:	Winnipeg Health (including Churchill)
Immunization Date:	No Filter
Immunizing Agent:	No Filter
Eligible for PHAC:	No FIlter
Date PHAC Eligible:	No Filter

Client ID	Birth Date	Gender	Client Org	Client SDL	AEFI Organization