



Forum on Immunizing in Schools

Using the Mass Module in iPHIS



Presentation Overview

- Discuss Mass and show what it can do
- Describe the processes for the North Shore
- Discuss success factors

The Mass Module in iPHIS

Can be used to:

- **Document services and information**
 - Immunizations
 - Exemptions
 - Adverse Events and/or Contraindications
- **Prescreen classes**
 - Previous immunizations
 - Exemptions and/or contraindications
- **Review for current immunization status**
 - Next Year: screen Kindergarten classes

In order to do that...

1. Class lists need to be entered into iPHIS
2. Audits need to be created for each clinic
3. Nurses need to know how to use Mass
 - Prescreening
 - Charting
 - Immunization Review

The Pros of using Mass

- Fast entry for nurses
- **Easy access to entire school's records**
- Easy to track previous immunization doses
- **Client records are up to date and complete**
- Continuity of care across the province
- **Easy viewing of client records before entry**
- Statistics can be pulled from iPHIS
- **Information will be converted to Panorama**

The Cons of Using Mass

- **Significant amount of clerical time needed**
- Significant amount of training required
 - Inconsistent terminology
 - Parts of the work flow is not intuitive
- **Two nurses cannot currently work on the same clinic at the same time**
- No access to:
 - manual dose override
 - make changes or corrections

Upcoming Changes

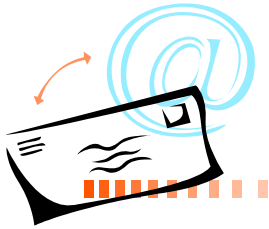
There was a recent review with input from users across the province and changes will be made to make the system more efficient and user-friendly

These changes could include:

- Terminology updates
- Some workflow process changes
- Extra training to key users will be available

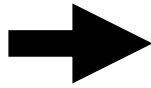
The Workflow: A broad overview

North Shore Process



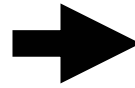
The class lists are received

- Via: one school board, private schools, individual schools.



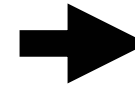
The lists are entered in the Mass Module

- Better the list, better ability to find the client record
- Records are updated if any new information exists.



Immunization Audits are created in Mass

- Entered by clerical in coordination with the person in charge of vaccines
- Allows for seamless set-up
- Done in advance of the clinics.



Immunization entry is done in Mass

- Nurses sign-up for a time to use the Audit
- Nurses enter the services they gave as per best practice standards

Entering Lists in Mass



http://iphistest.phsa.ca - iPHIS 6.5.1.2.2 BC TRAIN SITE PHISAPP0 - Microsoft Internet Explorer

Home • Client Search • Wait Queue • Scheduling • Outstanding

iPHIS Applications Page

Welcome to the Public Health Inf

Demographics

- General
- Administration
- System Admin
- CD
- TB
- STD
- Lab
- Mass**
- Public Health
- Outbreak
- Reports
- Logoff

File Upload
Client Match
Group Lists
Service Query
Hearing Summary
Dental Summary
Vision Summary
Immunization Audits
Skin Test Audits


Health Information System

 Public Health Agency of Canada Agence de santé publique du Canada

Prior to the school clinic season:

- Have the class list available
- Open the Mass Module to select *Group Lists*

Entering Lists in Mass... continued



Group Lists Query

Group Lists Query

Facility Type

HA NORTH SHORE

Facility #

District

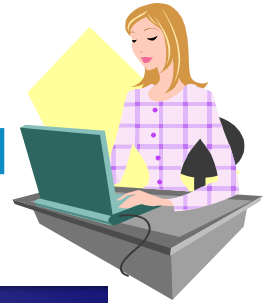
Facility

Search

- Argyle Secondary
- Balmoral Junior Secondary
- Blueridge Elementary**
- Boundary Community Elementary
- Bowen Island Community School
- Braemar Elementary
- Brooksbank Elementary
- Canyon Heights Elementary
- Capilano Elementary
- Carisbrooke Elementary

- Select the school from the Facility drop-down list and **Search**

Entering Lists in Mass... continued



Group Lists Query Results

Group Lists Query Results

Facility #	Facility Name	Contact	Divisions	List
	Blueridge Elementary		Divisions	List

[Search Again](#)

- Open the Divisions or the List button
 - **The two buttons represent two different ways to enter lists**
 - The List button collects a whole school's students on one large list
 - The Division button allows for separate lists (i.e., Gr6 and a Gr9)
- **North Shore uses Divisions for better organization**

Entering Lists in Mass... continued



Division List

Delete List **Select Client**

PHN	Name	Second Name	Common Name	Birth Date	Gender	Level	
	LEE , KATLYN		KATLYN	1995-02-10	FEMALE	<input type="text" value="6"/>	Add
	ANDREWS, ORLANDO			1995-10-10	MALE	6	Update
	BUSBY, TARYN		KIP	1995-03-27	MALE	6	Update

1. Use Select Client to search for and select the student
2. Enter the student's level and add them to the list (above)
3. Repeat until all students have been added to the list
 - For large lists, separate divisions can be created to speed entry
i.e. Argyle Gr9 A-M and Argyle Gr9 N-Z

**The list is now ready to be connected
to an Immunization Audit**

Creating Audits in Mass



Prior to prescreening or entry of immunization information from a clinic:

- Have the clinic details ready
 - Clinic date
 - School Name
 - Agents and lot-numbers
 - Providers

Creating Audits in Mass... continued



http://iphistest.phsa.ca - iPHIS 6.5.1.2.2 BC TRAIN SITE PHISAPP0 - Microsoft Internet Expl

Home • Client Search • Wait Queue • Scheduling • Outstanding

Immunizations

Immunization Audits

Start Effective Date

End Effective Date

Agent Group

Health Area NORTH SHORE

Branch

District

Facility

City

- Argyle Secondary
- Balmoral Junior Secondary
- Blueridge Elementary**
- Boundary Community Elementary
- Bowen Island Community School
- Braemar Elementary
- Brooksbank Elementary
- Canyon Heights Elementary
- Capilano Elementary
- Carisbrooke Elementary

Aboriginal Community

Postal Code

Show only Audits created by Current User

View Audits

- Choose the School Name from the drop-down list and **View Audits**



Creating Audits in Mass... continued



Immunizations

Audit Imms Ages Locations Risk Inds Clinic Profiles

Immunization Audit

Audit Name

Completion Date

Save

- Name the clinic according to a standard naming function and save before proceeding to the next three tabs.
 - Imms – specify agent groups, i.e. Meningo, Varicella Zoster
 - Ages – Left as All Ages and saved
 - Locations – Choose the group list that was previously created

Creating Audits in Mass... continued



Profiles

Number of Participants

Effective Date

Auto-Recalculate Participants?

Calculate Using Schedules?

New Profile Available

Latest Profile Effective Date

Participant Status

Show Contraindicated

Show Exempted

- Enter the Effective Date
- Press Calc. Profile
- **The Audit is set up!**
- **From here, you can:**
 - Start screening in advance of the clinic by ticking the Show Contraindicated and Exempted boxes and click **View Profile**
 - Or go to the **Clinic** tab to set up school clinic details prior to immunization entry

Screening with View Profile



Audit **Imms** **Ages** **Locations** **Risk Inds** **Clinic** **Profiles**

Immunization Profiles

Effective Date 2008-06-06
 Age All Ages
 Location Facilities Blueridge Elementary
 Risk Indications

Notes: ^ - overdue immunization

! - Client has contraindications, exemptions, or adverse events

- Basic information
- Names are hyperlinks
- Latest dose date
- Ability to save consent in advance
- Separates exempted clients

Client	Birth Date	Phone Number	Check Appts	Prev. Imms.	Agent Group	Prev. Dose	Comm. Status	Informed Consent	
BUSBY, TARYN	1995-03-27		Check		HEP B			<input type="text"/>	More Options
BUSBY, TARYN	1995-03-27		Check		MENINGO			<input type="text"/>	More Options
BUSBY, TARYN	1995-03-27		Check		VARICELLA			<input type="text"/>	More Options
! LEE, MIKAELA	1995-05-22	(604)566-1234	Check	1995-11-25	HEP B	3		<input type="text"/>	More Options
! LEE, MIKAELA	1995-05-22	(604)566-1234	Check	2006-01-18	MENINGO	1		<input type="text"/>	More Options

[Save](#)

Exemptions:

Client	Birth Date	Phone Number	Prev. Imms.	Agent Group	Prev. Dose	Exemption
LEE, MIKAELA	1995-05-22	(604)566-1234		VARICELLA		PREVIOUS DISEASE

Screening with View Profile... continued

[Audit](#) / [Imms](#) / [Ages](#) / [Locations](#) / [Risk Inds](#) / [Clinic](#) / [Profiles](#)

•Pop up view of a client's record via the View Profile screen



Processing...

[Click To Return When Processing Complete](#)

http://iphitest.phsa.ca - iPHIS 6.5.1.2.2 BC TRAIN SITE PHISAPP0 - Microsoft Internet Explorer

[Close](#)

Client / LEE, MIKAELA / 1995-05-22 / FEMALE (604) 566-1234
HA/Branch NORTH SHORE /

Exemptions **Adverse** **Contraindication** **Allergies**

[Exemption](#) / [Adverse](#) / [Contraind](#) / [Allergies](#) / [Alerts](#) / [Imms.](#)

Immunization Summary

Client / LEE, MIKAELA / 144 / 1995-05-22 / FEMALE (604) 566-1234

Immunization History

Agent	Date	HA	Branch	Provider Code	Lot #	Site	Dose #
DTaP-P	2000-07-01	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	5
DTaP-P-Hib	1996-11-15	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	4
DTaP-P-Hib	1995-11-25	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	1
DTaP-P-Hib	1995-09-01	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	2
DTaP-P-Hib	1995-07-01	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	3
HB	1995-11-25	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	3
HB	1995-09-01	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	2
HB	1995-07-01	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	1
MEN-C-C	2006-01-18	NORTH SHORE	PARKGATE CHC	UNKNOWN	DC	??	1

Internet

Clinic set-up in Mass for immunization entry



Clinic Preparation

Clinic Date

Formulary	Agent	Max Dose	Lot #	Site	Dosage	Dosage Units	Route	Reason For Immunization	
									<input type="button" value="Add"/>
PHS,*HEP B GRADE 6	Hepatitis B	2	F004020	LA	1	ML	INTRAMUSCULAR	ROUTINE VACCINE	<input type="button" value="Delete"/>
PHS,*MEN C-C	Meningococcal-Conjugate-C	1	RA6132A	LA	.5	ML	INTRAMUSCULAR	ROUTINE VACCINE	<input type="button" value="Delete"/>
PHS,*VARICELLA	Varicella Zoster	1	0615L	LA	.5	ML	SUBCUTANEOUS	ROUTINE VACCINE	<input type="button" value="Delete"/>

* Enter either Professional Status, Source Name, HA, or City for filter.

Provider Filter

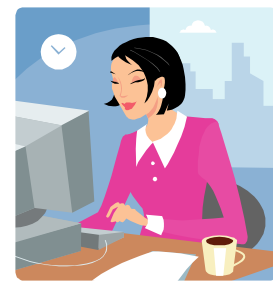
Professional Status	Source Name
<input type="text"/>	<input type="text"/>
HA	City
<input type="text"/>	<input type="text"/>

Provider

JONES,CHRISTINE

- Clerical staff enter clinic details
- Nurse reviews information before pressing **Run Clinic**

Immunization Entry in Mass



Clinic Provision

Clinic Date 2008-06-06

Clinic Location	Blueridge Elementary Level: Division: 6	Agent	Dosage Route		Reason For Immunization
		Hepatitis B	1 ML	INTRAMUSCULAR	ROUTINE VACCINE
		Meningococcal-Conjugate-C	.5 ML	INTRAMUSCULAR	ROUTINE VACCINE
		Varicella Zoster	.5 ML	SUBCUTANEOUS	ROUTINE VACCINE

- Tick boxes
- drop-down boxes

Run for all checked? **Confirm**

Notes: ! - Client has contraindications, exemptions, or adverse events.

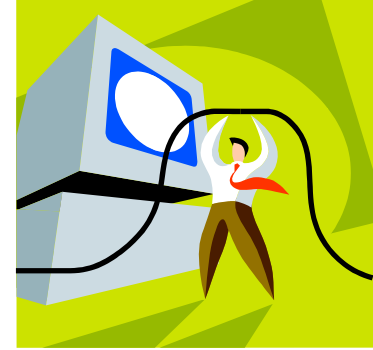
- Nurses instructed to enter 10-15 then press Confirm

Yes to All

Incl?	Client	Birth Date	Agent	Prev. Imms.	Prev. Dose	Lot	Site	Provider	Informed Consent	Next Dose
<input checked="" type="checkbox"/>	BUSBY, TARYN	1995-03-27	Hepatitis B			F004020 (2010-12-31)	LA	JONES,CHRISTINE	YES	1
<input checked="" type="checkbox"/>	BUSBY, TARYN	1995-03-27	Meningococcal-Conjugate-C			RA6132A (2010-12-31)	LA	JONES,CHRISTINE	YES	1
<input type="checkbox"/>	BUSBY, TARYN	1995-03-27	Varicella Zoster			0615L (2010-12-31)	LA			1
!	LEE, MIKAELA	1995-05-22	Hepatitis B	1995-11-25	3	DC (2010-01-01)	??	UNKNOWN	UNKNOWN	
!	LEE, MIKAELA	1995-05-22	Meningococcal-Conjugate-C	2006-01-18	1	DC (2010-01-01)	??	UNKNOWN	UNKNOWN	

Key Areas of Success

Lessons Learned



- **Need Manager Support**
 - Resources
 - Training
 - Time
- One person to oversee Mass set-up
- **Go-to person to help users**
- Clean-up the Mass Module at the end of each year so that the process can start with a clean slate in the fall.
- **Perform audits on Mass entries to ensure data integrity**
- Clear communication
 - Roles, responsibilities and processes are understood by all involved
- **Support Documentation (examples to follow)**
 - Resources for nurses to reference

Support Documentation



- Communicate how Mass fits into the rest of the school clinic process
 - Mass Clinic Workflow
- Provide standard forms for nurses to use
 - Sign-up sheet (verbal communication for small clinics)
 - Working tool for Mass entry based on class list
 - Immunization forms based on class list for tracking

Support Documentation... continued



Mass Clinic Documentation Process

Please speak with the CD Coordinator if you have any questions

Last Updated
March 04, 2008

Immunizing Nurse

Before Clinic: At Site (school)

- Fill out the iPHIS Entry sign-up sheet: Indicate sign-up time if wanted, entry method, and expected charting completion date after the clinic.
- Obtain a Clinic Immunizations (information working tool) to record client information.

During Clinic:

- Record the client immunization information on the working tool.
- Fill out the consent form and give the back page to the client.

Post Clinic : At Site (school)

- Return the consents to the charge nurse.
- Take the working tool back to the HU for charting purposes.

Post Clinic : Health Unit

- Use the Clinic Immunization working tool to chart on client records as you indicated on the iPHIS Entry sign-up sheet.
- Enter exemptions not already entered in the client records. **Note:** you only need to enter exemptions noted and that you handled from the clinic. Clerks will enter exemptions written by parents on the consent forms.
- **Return the Clinic Imms working tool to the charge nurse.**
- Call the charge nurse if you have any questions.

Aim to have charting complete on the electronic health record within 48 hrs.

Charge Nurse

Before Clinic: At Site (school)

- Ensure nurses fill out the iPHIS Entry sign-up sheet.
- Ensure each nurse has a Clinic Immunizations (information working tool) to record client immunizations.

During Clinic:

- Resume the client sign-in and consent form processes as per your normal routine.

Post Clinic : At Site (school)

- Collect the consent forms.
- Keep the Sign-up sheet for your own information.

Post Clinic : Health Unit

- Document any phone calls or refusals you handled at the clinic in the client electronic health records.
- Fill out the CD Imms Status Report and send to CD Coordinator **within 48 hrs** of the clinic.

- Mass module Workflow for nurses

- Shows roles of immunizing and charge nurse at the school clinic regarding the Mass Module

Support Documentation... continued



Community & Family Health Program
 132 West Esplanade, 5th Floor
 North Vancouver, BC V7M 1A2

SCHOOL NAME	Blueridge	TEACHER:	Ms. Hennessy
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R = Refusal	D = Disease	1 to 6 = Doses 1 to 6	C = Complete
V = Vaccine	A = Absent	✓ = Yes to Consent, C/O, reminder sent or non-responder	

GRADE SIX 2007/2008

See Ministry Vaccine Definitions sheet for agent guidelines

Hepatitis B - Guideline G
Men C Conjugate - Guideline H
Varicella - Guidelines E and F

Last Name	First Name	DOB/PHN	Consent	C/O	Men C - 1 Dose Clinic Date:	Hep B - # 1 Dose Clinic Date:	Hep B - # 2 Dose Clinic Date:	Varicella - D / V	Reminder # 1 Date:	Reminder # 2 Date:	Non Responder
1 BUSBY	Taryn	3/27/1995									
2 LEE	Mikaela	5/22/1995									
3											
4											
5											
6											
7											
8											
9											
10											

Notes:

- **School Immunization Form**
- **Nurses use this to track the student immunization status throughout the school year**



Support Documentation... continued



Blueridge1 of 1

- **Clinic Working Tool** • **Nurses use to chart on iPHIS**

Clinic Immunizations: Information Working Tool

All fields must be filled at the clinic.

Information on this form is used to complete client charting on the electronic record at the HU.

Keep this form in a safe place and shred after it has been entered on the electronic record.

If you have any questions, speak directly to the clinic Charge Nurse.

Immunizing Nurse: Nurse Jones

School Name: Blueridge

Clinic Date (YYYY-MM-DD): 6/6/2008

Agent: Hepatitis B

Lot Number: F004020

Agent: _____

Lot Number: _____

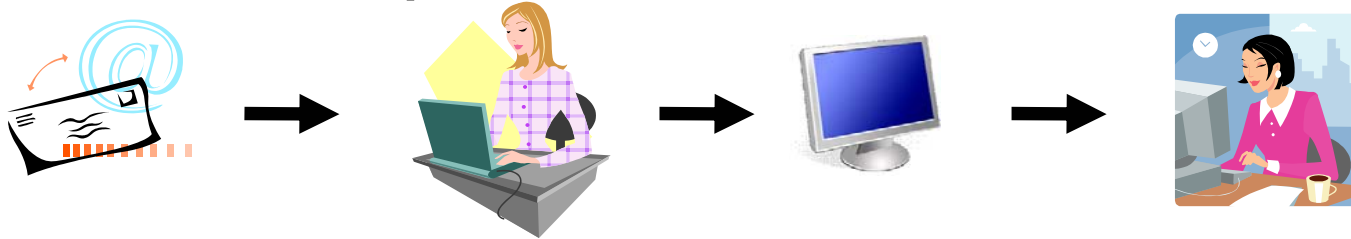
Agent: _____

Lot Number: _____

Legal Client Name and DOB		Product: <input checked="" type="checkbox"/>	Site: <input checked="" type="checkbox"/>		Product: <input checked="" type="checkbox"/>	Site: <input checked="" type="checkbox"/>		Product: <input checked="" type="checkbox"/>	Site: <input checked="" type="checkbox"/>		Comments
Last Name, First Name	DOB	Hep-B	LA	RA	Men-C	LA	RA	Vz	LA	RA	(ie: new exemption or notable information)
Busby, Taryn	3/27/1995	<input checked="" type="checkbox"/>									
Lee, Mikaela	5/22/1995	<input checked="" type="checkbox"/>									

Summary

- Mass can be used to:
 - Document services and information
 - Prescreen student immunizations before school clinic
 - Review for current immunization status
- North Shore processes



- Key Success factors
 - Manager Support
 - Resources and training
 - Designated super-users for set-up and to provide help

Thank You

