

Vermont's LDFs: Local Data Flexibility or Limited Development Functionality?

Patsy Tassler, Ph.D.
and the Vermont NBS Team
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NBS Implementation in Vermont

- Initial CDC NEDSS funding 2000
- Entity Migration beta test February 2004
 - 3,500 physicians
 - 15 hospitals
- Parallel data entry began March 8, 2004
 - Excluding animal rabies, HIV, STDs, TB
- Parallel “passed” in 4 weeks

13 Vermont LDFs

- Affiliated Day Care Name
- Affiliated Facility
- Graph Date
- Incomplete IZ
- Initial Patient Contact
- Raw Milk
- *Salmonella* Serotype
- School Name
- School Grade
- Source Code 2
- Source Code 3
- Virus Type Identified
- Water Source

State-Specific LDFs

Date

Treatment

Treatment ID

There is no information to display

Associated Vaccinations

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Date Administered

Vaccine Administered

Vaccination ID

There is no information to display

Notifications

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Date Created

Date Sent

Condition

Case Status

Status

No Records returned

Locally Defined Fields

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Source Code 2:

Source Code 3:

Initial Patient Contact:

Condition-Specific LDFs Pertussis

<u>Date Administered</u>	<u>Vaccine Administered</u>	<u>Vaccination ID</u>
There is no information to display		

Notifications					Back to Top
Date Created	Date Sent	Condition	Case Status	Status	
No Records returned					

Locally Defined Fields		Back to Top
Source Code 2:	Out of State	
Source Code 3:		
Initial Patient Contact:		

Condition Specific Locally Defined Fields		Back to Top
School Related Questions		
School Grade:		
Reasons for Incomplete IZ:		
School Name List:		

Condition-Specific LDFs

Campylobacteriosis

Date Created	Date Sent	Condition	Case Status	Status
No Records returned				

Locally Defined Fields

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Affiliated Day Care Name:

Affiliated Facility Name:

Source Code 2: PHN/DO

Source Code 3:

Initial Patient Contact:

Condition Specific Locally Defined Fields

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Did Patient Drink Raw Milk?

Water Source:

Patient

Campylobacteriosis



Manage
Treatments



Manage
Vaccinations



Manage
Observations



Create
Notifications



Transfer
Ownership



Edit

Limited Development Functionality?

- LDF code sets need to be configured by a DBA
- LDFs are only available for reports after a DBA creates views of the data (with appropriate permissions)
- Cannot be added to all conditions at once

Limited Development Functionality?

- Weblogic service needs to be stopped and restarted in order for the NBS application to load additions or changes to LDF code sets
- Procedural documentation for configuring LDFs is a work in progress
- Corrupted LDF files cause error message when updating Hepatitis cases to Hepatitis C, Chronic or Resolved ?

Limited Display Functionality?

- LDFs cannot be inserted near related fields (**Age, Date of Birth**) or in logical data entry order (**Source Code 2, Source Code 3**)
- LDFs do not appear on “Patient Search” page
 - **Age** could help un-duplicate individuals

Limited Data Functionality?

Data Continuity and Reporting

- NBS standard reports do not include LDFs
- Data in VT-specific NETSS fields is not captured in the NBS
 - **Report Status**
 - Some options in NBS **Case Status** field
 - VT-specific options would need to be in an LDF
 - Lost to follow-up
 - Epi-linked
 - Out-of-state
 - Possible (Lyme)
 - Need to combine data from two fields in analysis
 - **Weekly Disease Summary**
 - Based on VT-specific **Graph Date** in NETSS
 - No corresponding field in the NBS (**Date Confirmed** exists only for some conditions)
 - Need LDF until Legacy Migration completed
 - After Legacy Migration, weekly disease summary will not be comparable to current summary

Limited Data Functionality?

Data Continuity and Reporting (Cont.)

- Data in standard NETSS fields is not captured in the NBS
 - E.g., Lyme Disease symptom (including rash) and history data
- Tools will not be available for migrating LDF data into new PAM fields
 - E.g., For foodborne conditions in the 1.1.3 Foodborne PAM, 1.1.1 LDF data must be re-entered to capture all data in the same field

Data Continuity

Data Collection

Data Field	Paper Form	NETSS	NBS
Hospitalized?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		VT-specific	All conditions
Food Handler?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		VT-specific	All conditions
Refugee Screen?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No LDF
		VT-specific	

LDF = Local Data Flexibility

- Can capture NETSS fields that are not included in the NBS
- Can capture state-specific data items
 - New
 - Historical
- Text LDFs are easy to add
- Date LDFs are easy to add
 - If date > current date, requires custom validation
Java script
- Future PAMs may limit the need for LDFs
- CDFs will enhance flexibility and standardization

Lessons Learned

- Some special characters (e.g., "&") cause problems in LDF code sets
- States need an internal process for standardizing LDFs
- Demos of LDF configuration (e.g., by CSC with remote access to Vermont's server) are helpful
- Continuity of support staff is helpful

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