DRAFT UT-NEDSS Roadmap Details

Last Updated: 11-JUL-2008

Fundamentals

- NEDSS Compatible
- Help System
- System Administration Functionality
- Data
  1. Integrated Data Repository
  2. Data Dictionary
  3. Data Exchange Standards
     a) Use as appropriate (e.g., PHIN MS)
- Security
  1. Role, jurisdiction, and disease based rights management
  2. PHIN Compliance
  3. HIPPA (Security but not Privacy)
- Geocoding
- Smart Forms
- Flex Forms (configurable form fields, edit form prose)
  1. Universal need in Public Health

Release 1 - Confidential Morbidity Report (CMR)

Delivered March 31, 2008

- Create, View, Update, Delete, Search CMR data
- Basic CMR Reporting
- Duplicate reduction through search
- CMR Data Export
- Users with role and jurisdiction assignment

Release 2 - Case Investigation

Delivered July 3, 2008

- Disease specific Form Builder
  - Create and modify disease specific forms
  - Allow for Create, View, Update, and Soft Delete, of disease specific data
  - Support jurisdiction specific enhancements
  - Ability to add questions to diseases in the case of an outbreak
- Enhanced support for core data elements across disease investigation forms
  - Entering multiple doctors, labs, treatments, etc.
- Basic Notes

Release 3   Export, Reporting, Routing, and CDC Integration

Target October 1, 2008

- Export
  - Export with parameterized list
  - Export Form Builder Data
  - Export to IBIS
    - http://ibis.health.utah.gov/
- Reporting
  - Line List Reports
  - Graphical Reports
  - User Defined Reports
- Case Routing
  - Inter-Jurisdictional Routing
  - Intra-Jurisdictional Routing
  - Routing History
- Enhancements
  - Form Builder Enhancements
  - Core Data Enhancements
  - Security Enhancements

- CDC Integration
  - Transmit de-identified case report data weekly to CDC
  - NETSS
  - STD-MIS
- Nursing Notes
- Import NETSS Data
  - Basic demographic and disease information for each case
  - Data enables historical comparison
- Duplicate Prevention
- Soft Delete
- Audit Tracking
- Case Investigation QA
- System Reminders

Release 4 - Case Investigation Quality Assurance

Target December 31, 2008

- Ensure that the right info is captured
- Case meets CDC confirmed case requirements (lab, clinical information)

Note: UDOH can totally retire NETSS & STD-MIS after Release 4.

Release 5 - Case Management Tools

- Ensure that the right steps are taken
- Status tracking
  - Examples: Investigation Initiated, Reviewed, Assigned a Case Status, Person Contacted, Completed Interview, Contacted Susceptible Contacts, Final Case Definition Sign-off (LHD and State level)
- Letter generation
- Links to provide reference information and some decision support information to a case manager (e.g., links to appropriate places in disease plans, links to reference information, more sophisticated decision support reference information)
- Reporting

Release 6 - Longitudinal Data

- View a person over time with a disease
- Revisit Registries
    - o Hepatitis B and C registries exist in NETSS
    - o Determine best approach given new system and available technology
- Tools to efficiently add information to case record as new laboratory results (e.g, CD4, hepatitis serology, TB CXRs, syphilis serology) are received

Release 7 - Contact Management

- Who is related to a case

Release 8 - Case Load Management & Assurance

- Work load balancing
    - o Example: Balance open investigations per Nurse
- Work assignment
    - o Based on load balancing
- Notification and Reminder
- Dashboard

Release 9 - ELR (Electronic Lab Reporting)

- Receive labs electronically (receive HL7 messages) and create a case
- Integrate RT-CEND data with UT NEDSS
- ELR Work flow
    - o Create case if have enough data, put in work queue if not and walk user through work flow for CMR and Case Investigation forms
- Approximately 100 labs report to Utah   focus on top labs
- *Note: Needs working group with state & labs*

Release 10 - LHD Private Data (It seems that this was specified as part of release 2)

- Ability for LHDs to store LHD specific data

- Special version of Flex Forms

Release 11 - Analysis & Visualization

- Frequency of cases by demographics, place, time
- Data warehouse

Release 12 - Collaboration Tool Integration

- Wiki
  - Structured / Unstructured data lineage
  - Nursing notes (example)
- Web Ex
  - Enormously useful to state and local
- Replace Utah Epi X

Release 13 - Import Legacy Data

- Various data will need to be imported to the system

Release 14 - Outbreak Management & Investigation

- Clusters
- Linking together cases
- Collecting specimens
- Controls for case level studies
- Links to environmental investigation information
  - Possible integration with environmental investigation data systems

Release 15 - Off-line Client

- Disconnected client that uploads to central system when connected

Release 16 - Clinician Reporting

- Clinician can be authenticated and can initiate a report
  - Hospital Infectious Control Practitioners & others

- Line list

Release 17 - Electronic Notification

- Initiate CMR upon receipt of data from integration points
- Interface with Public Health Clinic
- Interface with Environmental Health Tracking
- Interface with hospital

Release 18 - GIS

- Assign Geocode to person, event, noun
- GIS interface

Release 19 - Integration with Syndromic Data

- RODS database

Release 20 - Replace HARS

- All forms in system
- Case management
- Longitudinal features
- Stringent Security requirements
- Standard reports