

# Planning for the ICD-10 Transition

## Presenters

**Sarah Brooks**

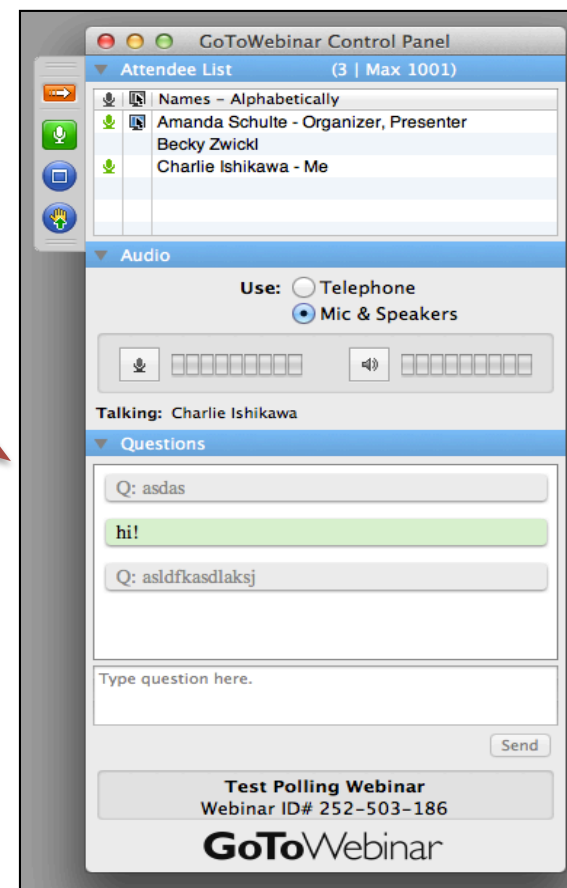
State of NC, DHHS  
Division of Public Health

**David Swenson**

State of NH, DHHS  
Division of Public Health Services

# Webinar Logistics

- Everyone is muted. Raise hand to speak directly. Be sure to enter audio code.
- To ask questions: type into question box on GoToWebinar control panel. OR--Click the hand icon to be unmuted to ask directly.
- Please take a few moments to answer the evaluation that pops up when you log off.
- 1 CPH recertification credit is available for viewing this webinar (be sure to complete evaluation).



# Planning for the ICD-10 Transition

## International Society of Disease Surveillance

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State of NC, DHHS

Division of Public Health

David Swenson

State of NH, DHHS

Division of Public Health Services

November 12, 2014



# Agenda

- Description
- Learning Objectives
- NC's ICD-Transition plan
- NH's ICD-Transition activities



# Description

## ● Description

- The transition of all HIPAA covered entities from the use of ICD-9-CM to ICD-10-CM/PCS codes on October 1, 2015 will create a paradigm change in the use of electronic health record (EHR) data
- Many public health surveillance entities that receive, interpret, analyze, and report ICD9 encoded data will be significantly impacted by the transition
- Two jurisdictions (NC and NH) will detail their transition plans and associated activities in this webinar



# Learning Objectives

- Describe NC's ICD-10 Implementation activities
- Describe NH's ICD-10 implementation activities
- Identify potential activities to prepare your jurisdictional ICD-10 transition

# NC's Transition Planning

- **DPH ICD-10 Implementation Project charter approved May 2011**
  - **Project Goal:** Ensure that the staff and information systems that currently utilize ICD-9-CM for classification of disease and morbidity information within the Section/Branches of the Division of Public Health and local health departments seamlessly transition to the federally mandated ICD-10 effective October 1, 2015.
  - **Project Sponsor:** Chief, Administrative, Local & Community Support Section



# NC's Transition Planning

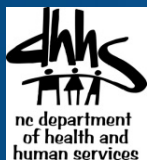
- **NC DHHS ICD-10 Project**
  - Department level project formalized in Dec 2013
  - All offices/divisions in DHHS impacted by ICD-10 are included in the project
    - Primarily public health, mental health, rural health, DHHS IT, Medicaid
  - Project monitored by State CIO
  - NC DHHS ICD-10 Steering Committee chaired by DHHS CIO





# NC's Transition Planning

- Key activities to date
  - DPH System Impact Analysis
    - Birth Defects Monitoring Program Registry
    - CareWare (AIDS data)
    - Health Information System (Patient Management/Billing/EMR) and interfaces
    - Client Services Data Warehouse
    - Medical Examiner Information System
    - NC DETECT (Disease surveillance)
    - Occupational Surveillance
    - NC Tracks
    - StarLims (State Laboratory for Public Health)



# NC's Transition Planning

- **Key activities to date**
  - **DPH Business Impact Analysis**
    - Form modifications
    - Report modifications
    - Rule changes
  - **Project management tools**
    - Schedule
    - Budget
    - Project Plan
    - Implementation Plan
    - Training Plan
    - Issue Log/Risk Matrix



# NC's Transition Planning

## ● Key activities to date

### ● Website development and maintenance

● <http://publichealth.nc.gov/lhd/icd10/>

### ● Development of implementation tools and training for local agencies

● Business Impact Assessment tool and training

● Clinical Documentation Assessment tool and training

● Readiness survey

### ● ICD-10-CM Training materials developed and training conducted for local agency implementation team members and DPH



# NC's Transition Planning

- **Key activities to date**
  - **Formation of DPH ICD-10 Implementation Team**
    - DPH representatives
    - Local Health Department representatives
    - Child Development Service Agency representatives
    - Office of Rural Health representatives
  - **Active participation in NC Health Information and Communications Alliance (NCHICA)**
    - ICD-10 Task Force
    - ICD-10 Program Managers Focus Group
  - **Active participation in Medicaid ICD-10 committees**

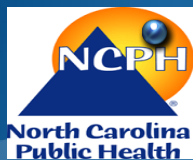
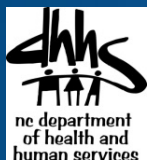


# NC's Transition Planning

## ● Key activities in 2015

- System remediation and testing
- Provider/trading partner testing with payers and clearinghouses
- Readiness Assessments
- ICD-10-CM coding training May – September 2015
  - Basic ICD-10-CM coding (prerequisite)
  - Specialized Courses
    - Maternal Health
    - Primary Care, Women's Health, Chronic Disease, BCCCP
    - Behavioral Health
    - STD, HIV, Communicable Disease
    - Child Health, Health Check

Family Planning



# NC's Transition Planning

- **Key activities to date**
  - Regular communications to 500+ ICD-10 contacts throughout the state
  - 10 public health providers selected to participate in Medicaid provider/trading end-to-end testing during Spring/Summer 2015

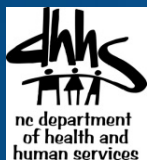
# NH's Surveillance Transition Plan

- Perform Transition Impact Analysis (2013)
- Perform Detailed Needs Assessment (2013)
  - ICD database
  - ICD reporting and alerting
  - ICD analysis
  - ICD resources
- Develop (2013 – 2015)
  - IT support contract (2013 & 2014)
  - Business & Technical Requirements (2013-2014)
  - Implement changes (2013-2015)



# NH's Surveillance Transition Plan

- Participate in national ICD-10-CM transition activities (2013-2014)





# NH's Transition Activities

- Downloaded CMS ICD-9 & ICD-10 codes (2013)
- Developed contract to augment IT Staff (2013-2014)
  - Took advantage of NH Department of Information Technology (DoIT) Contract for Advanced Temporary Technical Services (CATTs) contracting mechanism
  - Quicker contracting process due to pre-selected vendors
- Added new ICD-9 and ICD-10 codes to syndromic system database (2013-2014)



# NH's Transition Activities

- Augmented IT Staff (2013 – 2014)
- Added ICD-10 fields/tables (2013 – 2014)
  - Added code field to diagnosis table
  - Added reportable disease group/code tables)

DIAGNOSIS_PROCEDURE			
HISTORY_PARENT_UID	number(20)	<fk1>	not null
ENCOUNTER_UID	number(20)	<fk2>	nu
TYPE_CODE_UID	NUMBER(20)		no
EVENT_DATE	DATE		nu
PRIORITY_RANK	NUMBER(10)		nu
ICD9_CODE_UID	NUMBER(20)		nu
ORIGINAL ICD9 CODE	VARCHAR2(20)		nu
CD10_CDE_UID	NUMBER		nu
ORIGINAL ICD10 CDE	VARCHAR2(20)		nu
CREATION_DT	DATE		no
CREATION_ID	VARCHAR2(30)		no
LST_UPDT_DT	DATE		not null
LST_UPDT_ID	VARCHAR2(30)		not null

ICD10_GROUP			
ICD10_GROUP_UID	ICD10_GROUP_UID	<pk>	not null
ICD10_GROUP_NAME	VARCHAR2(100)		not null
JDO_VERSION	NUMBER(10)		not null
CREATION_DT	DATE		not null
CREATION_ID	VARCHAR2(30)		not null
LST_UPDT_DT	DATE		not null
LST_UPDT_ID	VARCHAR2(30)		not null

CREATION_ID	VARCHAR2(30)	not null
LST_UPDT_DT	DATE	not null
LST_UPDT_ID	VARCHAR2(30)	not null

ICD10_GROUP_TO_ICD10_CODE			
ICD10_GROUP_UID	ICD10_GROUP_UID	<fk1>	null
ICD10_CODE_UID	number(20)	<fk2>	null
CREATION_DT	DATE		not null
CREATION_ID	VARCHAR2(30)		not null
LST_UPDT_DT	DATE		not null
LST_UPDT_ID	VARCHAR2(30)		not null

# NH's Transition Activities

- Added ICD-10 processing (2013-2014)
  - Web-maintenance of 24 or 72 hour reportable disease groups

HL7 Stats Message ICD9 Group Location Group Codes Encounters ICD10 Group

### ICD10 Groups

Group Name  ICD10 Code  Description

ICD10 Codes Included

- A00.9 - Cholera, unspecified
- A05.1 - Botulism food poisoning
- A20.9 - Plague, unspecified
- A22.0 - Cutaneous anthrax
- A22.1 - Pulmonary anthrax
- A22.2 - Gastrointestinal anthrax

ICD10 Codes Available

- 111.1 - ICD10-C1
- 222.2 - ICD10-C2
- A00 - Cholera
- A00.0 - Cholera due to *Vibrio cholerae* 01, biovar cholerae
- A00.1 - Cholera due to *Vibrio cholerae* 01, biovar eltor
- A01 - Typhoid and paratyphoid fevers

2 items found, displaying all items.

	ICD10 Group Name	
<input type="button" value="Edit"/>	24	<input type="button" value="Delete"/>
<input type="button" value="Edit"/>	72	<input type="button" value="Delete"/>

Export options: [CSV](#) | [Excel](#) | [XML](#)

# NH's Transition Activities

- Added ICD-10 processing (2013-2014)
  - Web-maintenance of ICD-10 user alerts

Alerts Password

**Alerts**

Enabled:  Yes  No  
 Send Email:  Yes  No  
 Created By:   
 Minimum Count:   
 User: 

- dswenson
- dtherrien
- dwalker
- edely
- elivingstone
- gwasiewski

Location: 

- States —
- NH
- Counties —

Syndrome: 

- Botulinic
- Constitutional
- Gastrointestinal
- Hemorrhagic
- Neurological

Zhang Alert Level:   
 Standard Deviation:   
 Break CI of Mean  
 Break Third Sigma  
 Raw Count  
 ICD9 Group:   
 ICD10 Group:

43 items found, displaying 1 to 10. Jump to page: [First]Prev] 1, 2, 3, 4, 5 [Next/Last]

	Enabled	Email Enabled	User(s)	CreatedBy	Minimum Count	Location	Syndromes	Criteria	Value	
<input type="button" value="Edit"/>	true	true	dswenson	dswenson	3	All Locations	All Syndromes	Standard Deviation	>3	<input type="button" value="Delete"/>

# NH's Transition Activities

- Added ICD-10 processing (2013-2014)
  - Querying by specific codes
  - Reporting by either ICD-9 or ICD-10 coding

### AHEDD - ADHOC Investigation Screen

**Select Major Grouping**

All (Hospitals)     Original Town

Hospital             Political Town

County                 Surround Town

School Town         Hospital Service Area

All (PHR)             PHR

**Select Syndrome**

All    ICD Syndrome: NONE

Botulinic Only     Neurological Only

Constitutional Only     Other Only

Gastrointestinal Only     Rash Only

Hemorrhagic Only     Respiratory Only

**Select Start Date and End Date**      **Select Keyword Search for Disease**

Start: 11/4/2014    End: 11/5/2014      Select Disease: NONE

**Select Age**

Start at:    Thru:    Select Age    Clear Age

Chief Complaint Text:      Select CC Text Query: \_\_\_\_\_

Medical Record Number:    Select ICD9 Confirm Name: \_\_\_\_\_

Encounter Number: \_\_\_\_\_

Alert Number: \_\_\_\_\_

Enter ICD Codes in full Example 493.90

ICD9     ICD10

SELECTION	FIELD	SELECTED CRITERIA
Report		Encounter Detail & ICD Diagnosis
Major Grouping	Hospital	All
Major Grouping	Syndrome	All
Reporting Dates	Admit Date	11/4/2014 - 11/5/2014

Include ICD records  
 Select All Encounters

### AHEDD ICD Lookup Screen

Enter ICD9/ICD10 code and/or Description field (partial key acceptable)

ICD9       ICD10

ICD Lookup Table    ICD Code:    

Reportable Diseases    Description:    

Select each of the ICD codes from the list below that you want in the selection

Select ICD Codes 
Cancel Selections

# NH's Transition Activities

- Added ICD-10 processing (2013-2014)
- Reportable disease alerting (includes email alerts)

**AHEDD - ADHOC Investigation Screen**

**Select Major Grouping**

All (Hospitals)     Original Town  
 Hospital     Political Town  
 County     Surround Town  
 School Town     Hospital Service Area  
 All (PHR)     PHR

**Select Syndrome**

ICD Syndrome: ALL  
 Select records using HISTORY\_DATE  
 Select Reportable Diseases Only

**Select Start Date and End Date**

Start: 11/4/2014    End: 11/5/2014

**Select Keyword Search for Disease**

Select Disease: NONE

**Select Age**

Start at:    Thru:    Select Age:    Clear Age:   

Chief Complaint Text:    Select CC Text Query:   

Medical Record Number:    Select ICD9 Confirm Name:   

Encounter Number:   

Alert Number:   

Enter ICD Codes in full Example 493.90

ICD9     ICD10

Select ICD Codes    Clear All ICD Codes    ICD Lookup Table

SELECTION	FIELD	SELECTED CRITERIA
Report		Encounter Detail & ICD Diagnosis
Major Grouping	Hospital	All
Major Grouping	ICD9 Syndrome	ALL(Reportable Only)
Reporting Dates	History Date	11/4/2014 - 11/5/2014

View Detail Records

Include ICD9 records  
 Select All Encounters

Return

Dev System: NHHISD

# NH's Transition Activities

- Participated in ISDS national ICD-10 transition efforts (2013-2014)
  - Presented with Peter Hicks at 2013 ISDS Pre-Conference Workshop

## Overview of ICD-9/10 transition Business Functions

1. Develop multi-functional plan to receive, process, store, and use ICD-10 codes
2. Develop technical requirements and specifications based on business need
3. Develop ICD-9 to 10 code mappings
4. Revise existing syndromic definitions and queries
5. Revise analytical procedures
6. Produce codebooks, conversion tools, reference materials and best practices to share with the Public Health community



NH DIVISION OF  
Public Health Services

Improving health, preventing disease, reducing costs for all  
Department of Health & Human Services



# NH's Transition Activities

- Participated in ISDS national ICD-10 transition efforts (2013-2014)
- Worked with ISDS work group to map ICD-9 to 10 codes

## Syndrome Classification Exercise

1. Using NH's Influenza-Like-Illness (ILI/ARI) code syndrome, translate related ICD-9 code **487.0** to ICD-10 codes. Original ICD-9 list: 079.99,382.9,460,461.9,465.8,465.9,466.0,486,**487.0**,487.1,487.8,490,780.6,786.2

<http://www.icd10data.com/Convert>

The screenshot shows the ICD10Data.com website interface. The search bar contains '487.0'. The results show 'ICD-9-CM 487.0 converts approximately to:' followed by two ICD-10 codes: '2014 ICD-10-CM J11.99 Influenza due to an identified influenza virus with unspecified type of pneumonia' and '2014 ICD-10-CM J12.1 Viral pneumonia, unspecified'. The first code is highlighted in blue.

2. Next, reverse translate related ICD-10 codes to ICD-9 codes (type J11.00, then J12.9), suggests adding **480.9**.

The screenshot shows the ICD10Data.com website interface. The search bar contains 'J11.00'. The results show 'ICD-10-CM J11.00 converts approximately to:' followed by one ICD-9 code: '2014 ICD-9-CM 487.0 Influenza with pneumonia'. The code is highlighted in blue.

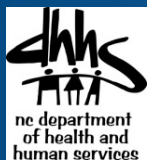


# NH's Transition Activities

- Participated in ISDS national ICD-10 transition efforts (2013-2014)
- Now working to assess (2014)

E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
BioSense 2.0 - 2013	ICD-9 Code 2014	ICD-9 Code Title 2014	ICD-10 Translation Directionality / Rational	ICD-10 Code 2014	ICD-10 Code Title 2014	ICD-9 Syndrome 2014	ICD-9 Sub-Syndrome 2014	ICD-10 Macro Syndro	ICD-10 Micro Syndro	CDC	P5	P11	P6	Remarks from Panel	ISDS - Consensus
487.x	487.0	Influenza with pneumonia	Forward Map	J10.00	Influenza due to other ident					A	A	A	A	Create separate ILI category	1
487.x	487.0	Influenza with pneumonia	Forward Map	J10.08	Influenza due to other ident					A	A	A	A		1
487.x	487.0	Influenza with pneumonia	Forward Map	J11.00	Influenza due to unidentified					A	A	A	A		1
487.x	487.0	Influenza with pneumonia	Forward Map	J11.08	Influenza due to unidentified					A	A	A	A		1
487.x	487.0	Influenza with pneumonia	Forward Map	J12.9	Viral pneumonia, unspecified					A	A	A	B	P6: This seems too general	3
487.x	487.1	Influenza with other respiratory manife	Forward Map	J10.01	Influenza due to other ident					A	A	A	A	P6: fixed field "ICD-10 Code Title 2014"	1
487.x	487.1	Influenza with other respiratory manife	Forward Map	J10.1	Influenza due to other ident					A	A	A	A		1
487.x	487.1	Influenza with other respiratory manife	Forward Map	J11.1	Influenza due to unidentified					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J10.2	Influenza due to other ident					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J10.81	Influenza due to other ident					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J10.82	Influenza due to other ident					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J10.83	Influenza due to other ident					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J10.89	Influenza due to other ident					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J11.2	Influenza due to unidentified					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J11.81	Influenza due to unidentified					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J11.82	Influenza due to unidentified					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J11.83	Influenza due to unidentified					A	A	A	A		1
487.x	487.8	Influenza with other manifestations	Forward Map	J11.89	Influenza due to unidentified					A	A	A	A		1
488.xx	488.01	Influenza due to identified avian influen	Forward Map	J09.X1	Influenza due to identified n					A	A	A	A		1
488.xx	488.02	Influenza due to identified avian influen	Forward Map	J09.X2	Influenza due to identified n					A	A	A	A		1
488.xx	488.09	Influenza due to identified avian influen	Forward Map	J09.X3	Influenza due to identified n					A	A	A	A		1
488.xx	488.09	Influenza due to identified avian influen	Forward Map	J09.X9	Influenza due to identified n					A	A	A	A		1
488.xx	488.11	Influenza due to identified 2009 H1N1 in	Forward Map	J10.08	Influenza due to other ident					A	A	A	A		1
488.xx	488.12	Influenza due to identified 2009 H1N1 in	Forward Map	J10.1	Influenza due to other ident					A	A	A	A		1
488.xx	488.19	Influenza due to identified 2009 H1N1 in	Forward Map	J09.X9	Influenza due to identified n					A	A	A	D	P6: 2009 H1N1 should not be mapp	1
488.xx	488.81	Influenza due to identified novel influen	Forward Map	J09.X1	Influenza due to identified n					A	A	A	A		1
488.xx	488.82	Influenza due to identified novel influen	Forward Map	J09.X2	Influenza due to identified n					A	A	A	A		1
488.xx	488.89	Influenza due to identified novel influen	Forward Map	J09.X3	Influenza due to identified n					A	A	A	A		1
488.xx	488.89	Influenza due to identified novel influen	Forward Map	J09.X9	Influenza due to identified n					A	A	A	A		1

Qualifier CDC	
A	Consists of codes that reflect general symptoms of the syndrome group and also include codes for the bioterrorism diseases of highest concern or those diseases biologically approximation to them.
B	Consists of codes that might normally be placed in the syndrome group, but daily volume could overwhelm or otherwise detract from the signal generated from the Category 1 code set alone.
C	Consists of specific diagnoses that fit into the syndrome category but occur infrequently or have very few counts. These codes may be excluded to simplify syndrome category code sets.
D	Not a match
Consensus ISDS	
1	Include
2	Unknown
3	Exclude
Inclusion to ICD-10 Translation Rational	
FM	Forward Map
BM	Backward Map
New	not included
EX!	New Exclusion



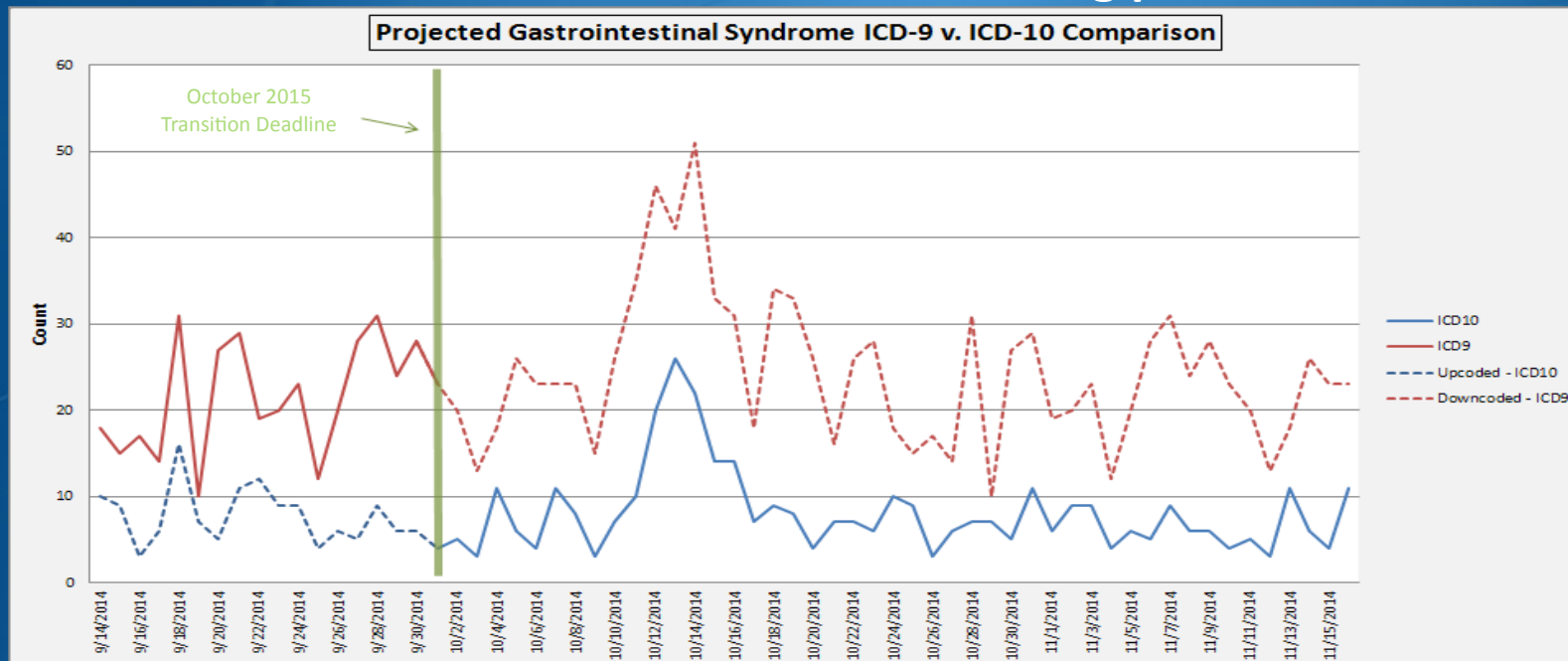
# NH's Transition 2015 Plan

- Continue participation in ISDS national ICD-10 transition efforts
  - Integrate best practices
- Coordinate hospital ICD-10 code testing
  - Test with hospitals that are ready
  - Develop plan for hospitals not ready



# NH's Transition 2015 Plan

- Develop historical trending strategy
  - Impact on analysis
    - Should we trend ICD-9 to ICD-10 or vice-versa?
    - What code or specific condition should be chosen in assignment of ICD-10 codes to ICD-9 historical baselines?
    - How should we reconcile non-conforming provider data?



# NH's Transition 2015 Plan

- Train surveillance staff in new ICD processing



# Contact Information

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# Planning for the ICD-10 Transition

Questions?



# Announcements



## Upcoming ISDS Events

- **ISDS 2014 Annual Conference Last Day for Regular Registration Rate:** Nov. 17<sup>th</sup>, 2014, 11:59pm ET
- **ISDS 2014 Annual Conference Last Day for Reduced Hotel Rate:** Nov. 17<sup>th</sup>, 2014, 11:59pm ET
- **BioSense User Group Meeting,** Nov. 18<sup>th</sup>, 2014, 3:00pm-4:30pm ET
- **Meaningful Use Community Call,** Dec. 7<sup>th</sup>, 2014, 1:00pm-2:00pm ET
- **Webinar: Animal Health Surveillance in the US,** Nov. 20<sup>th</sup>, 2014, 1:00pm-2:30pm ET
- **Webinar: The National Syndromic Surveillance Program,** Dec. 2<sup>nd</sup>, 2014, 2:00pm-3:00pm

Register and learn more: [www.syndromic.org](http://www.syndromic.org)