



# Syphilis case question package and workflows for LHDs

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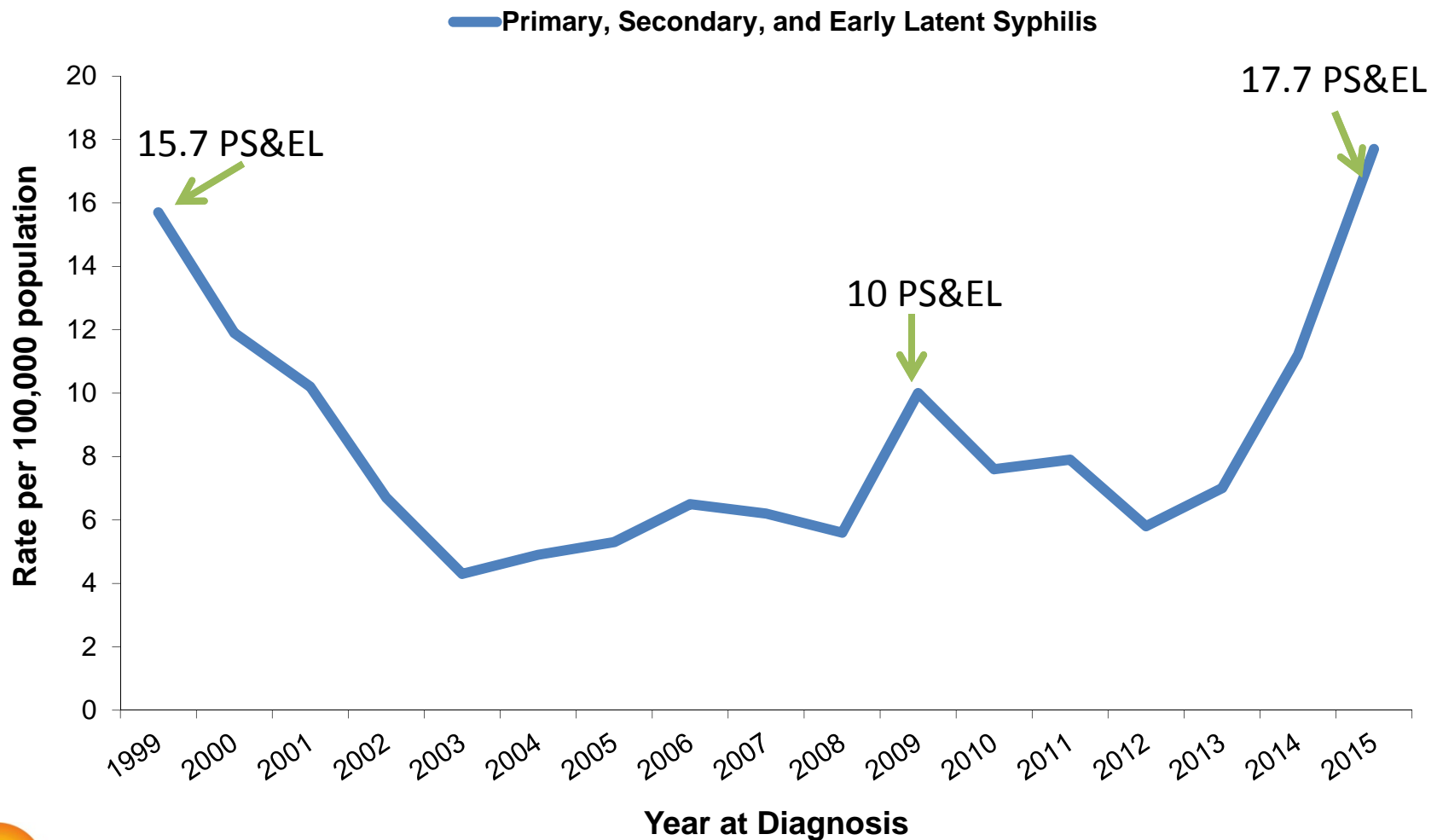
North Carolina Division of Public Health

July 2016

# What's changing and why?

- LHDs will have read-only access to syphilis events in LHD counties
  - Events assigned based on the NC County of Residence for the event in the Administrative package
  - No case follow-up nor data entry is expected
  - LHD acknowledgement will be required
- Why?
  - Reporting to LHD
  - Making local syphilis morbidity and risk data available

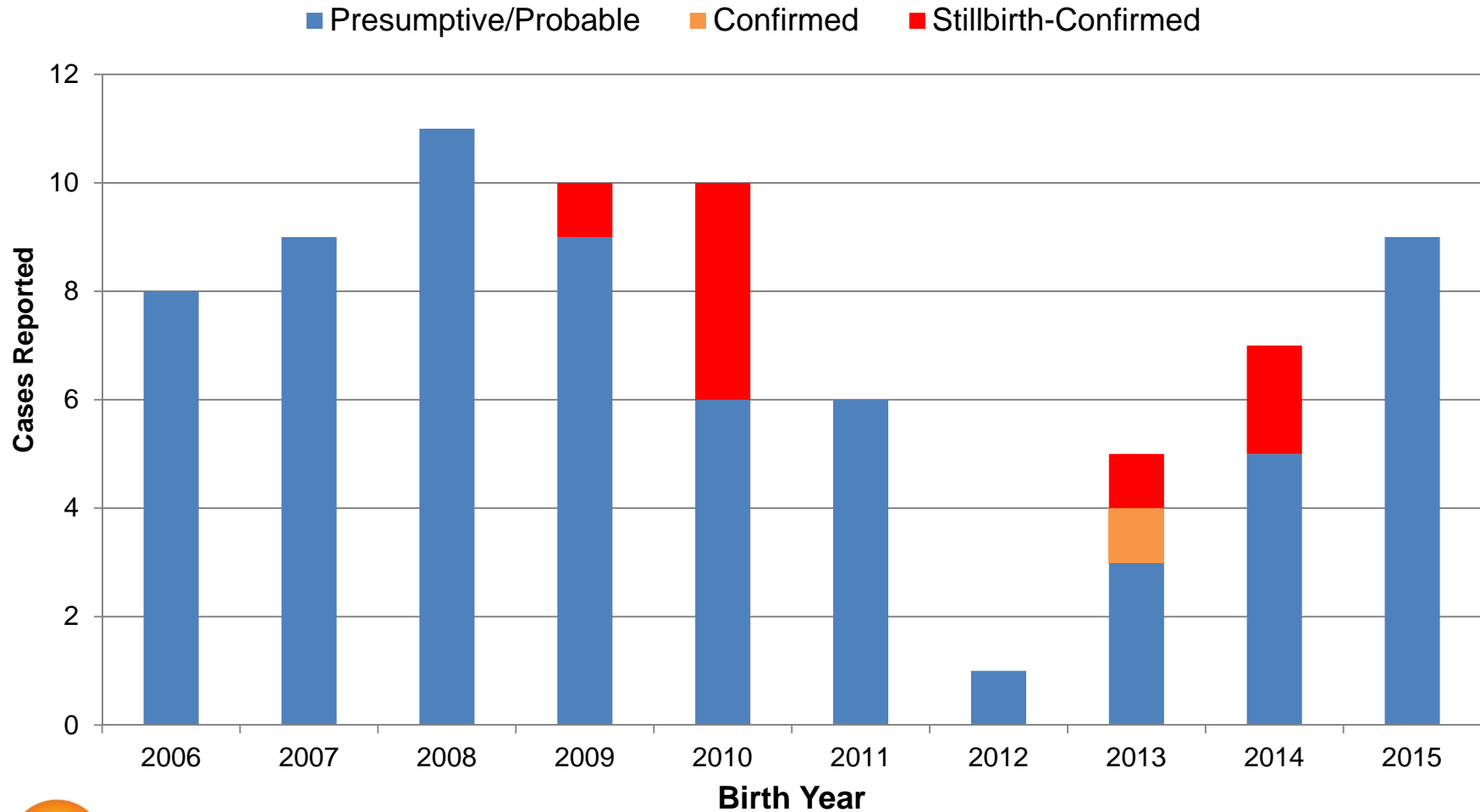
# Primary, Secondary, and Early Latent Syphilis Rates, North Carolina, 1998-2015 preliminary data



Data Source: North Carolina Electronic Disease Surveillance System (NC EDSS)  
(data as of July 6, 2015 and February 1, 2016).

HIV/STD Surveillance Unit

# Congenital Syphilis, Cases by Birth Year, North Carolina, 2006-2015 preliminary data



Data Source: Sexually Transmitted Disease Management Information System (STD\*MIS) and North Carolina Electronic Disease Surveillance System (NC EDSS) (data as of January 19, 2016).

HIV/STD Surveillance Unit

# How will syphilis case investigation work?

State/Region/ELR	<ul style="list-style-type: none"><li>• Create case</li></ul>
Region	<ul style="list-style-type: none"><li>• Start case investigation + gathering contact info</li></ul>
LHD	<ul style="list-style-type: none"><li>• Offer treatment if LHD case</li></ul>
Region/State	<ul style="list-style-type: none"><li>• Stage case and report to CDC</li></ul>
LHD	<ul style="list-style-type: none"><li>• Acknowledge case</li></ul>
Region	<ul style="list-style-type: none"><li>• Continue case investigation</li><li>• May include stage change, addition of risk information</li></ul>
LHD	<ul style="list-style-type: none"><li>• Acknowledge case if stage change</li></ul>
Region/State	<ul style="list-style-type: none"><li>• Continue and complete case investigation, close case</li></ul>

**Questions??**

# Who is responsible for acknowledging cases?

- One STD nurse and one backup per LHD



# What will LHDs have access to?

## North Carolina Electronic Disease Surveillance System



### Event Summary

#### Basic Information

Event ID:	101052451
Disease:	Syphilis - 02. Secondary Syphilis (720)
Person:	<a href="#">Quince Pie</a> Birth Date: 01/01/1971 ( 45 Male ) Phone: (712) 454-9910
Type:	Batch
Investigation Status:	Open
Linked Events/Contacts:	2 linked event(s)/contact(s)
Attachments:	0 attachment(s)
Notifications:	Classification: Confirmed County of residence: Wake County

[Edit Event Properties](#)

- Event Data
- Lab Results
- Concerns
- Persons
- Tasks
- Event Properties
- Event History

#### Question Packages

Question Package	Person
▶ 01. Administrative	<a href="#">Quince Pie</a>
02. Demographic	<a href="#">Quince Pie</a>
03. Clinical	<a href="#">Quince Pie</a>
04. Risk History	<a href="#">Quince Pie</a>
10. LHD Event Acknowledgement	<a href="#">Quince Pie</a>
11. Case Definition Wizard	<a href="#">Quince Pie</a>
13. Risk Questions - Part 1	<a href="#">Quince Pie</a>

[View Question Package](#)

Wizards

[View Wizard](#)



# Clinical package

General Diagnostic Information	
<i>Is / was patient symptomatic?</i>	Yes ▼
<i>Date that best reflects the earliest date of illness identification</i>	03/01/2016
<i>Illness identification date represents:</i>	Date symptoms began ▼
Date of diagnosis by health care provider or LHD	04/01/2016
Location where originally diagnosed	▼
Clinical Findings (including signs, symptoms, diagnostic tests, and complications)	
Site of infection	<input type="checkbox"/> Anus/Rectum <input type="checkbox"/> Vagina <input type="checkbox"/> Torso <input type="checkbox"/> Pharyngeal (Mouth/Oral Cavity) <input type="checkbox"/> Cervix <input type="checkbox"/> Extremities (Arms, legs, feet, hands) <input type="checkbox"/> Uretha <input type="checkbox"/> Nasopharynx <input type="checkbox"/> No lesion noted <input checked="" type="checkbox"/> Penis <input type="checkbox"/> Eye/Conjunctiva <input type="checkbox"/> Other <input type="checkbox"/> Scrotum <input type="checkbox"/> Head <input type="checkbox"/> Unknown
Screening and Counseling	
<b>NOTE: Answer questions below and enter all lab results in the lab tab!!</b>	
Did patient have a non-treponemal test for syphilis (i.e. VDRL, TRUST, RPR)? (Add new for additional tests) ☒	1. Yes, reactive ▼
Type of test	RPR ▼
Test date	04/01/2016
Titer	1:128 ▼
Did patient have a treponemal test for syphilis? (i.e. Captia, FTA-ABS, TP-PA) (Add new for additional tests) ☒	1. Yes, reactive ▼
Type of test	Trepsure ▼
Test date	04/01/2016
Was patient post test counseled for HIV?	No ▼
Did patient have a darkfield exam or DFA-TP? ☒	No ▼
Documented or self reported HIV status at time of event	HIV Negative ▼
Tested for HIV as part of this investigation	Yes ▼
Current HIV status	Negative ▼
Did the patient have CSF-VDRL?	No ▼
Did patient have CSF cell count?	No ▼
Did patient have CSF protein test?	No ▼

# Risk History package

## 04. Risk History - Apple Pie - Syphilis - 01. Primary Syphilis (710)

[Jump To...]

Save

Cancel

Travel / Immigration	
Did patient have a travel history during the period of interest?	No ▼
Behavioral Risk and Congregate Living	
<b>DURING THE PERIOD OF INTEREST</b>	
<b>CONGREGATE LIVING</b>	
If the congregate living facility is a long term care facility, please enter the information under Health Care Facility / Blood and Body Fluid Exposure section below.	
During the period of interest did the patient live in any congregate living facilities (correctional facility, barracks, shelter, commune, boarding school, camp, dormitory/sorority/fraternity)?	01. Correctional facility ▼
During the patient's lifetime, has the patient ever been incarcerated?	▼
Is the patient a gang member?	▼
Is the patient associated with a "House"?	▼
<b>SUBSTANCE USE</b>	
Has the patient ever used alcohol?	No ▼
Has the patient ever used injection drugs?	▼
Has the patient ever used NON-injection drugs?	▼
<b>SEXUAL RISK</b>	
Since disease onset, has the patient had sexual contact with other(s)?	Yes ▼
Did the partner(s) become ill with the symptoms of this disease?	No ▼
During the timeframe displayed above, has the patient had sexual contact with a confirmed or suspected case of this disease?	Yes ▼
Did the partner(s) become ill with the same symptoms?	Yes ▼
Prior to the instance of this disease has the patient ever had a sexually transmitted disease (STD)?	No ▼
How frequently does the patient use condoms during sex?	Sometimes ▼
During the timeframe shown above, has the patient had sex while intoxicated and/or using non-injecting drugs?	Yes ▼
Please specify (check all that apply)	<input type="checkbox"/> Non-injection drugs <input type="checkbox"/> Injection drugs <input checked="" type="checkbox"/> Alcohol
Timeframe known?	No ▼
Has the patient ever traded sex for drugs or money?	No ▼
Has the patient ever been a victim of a sexual assault?	No ▼
Has the patient had a new sexual partner during the interview period?	Yes ▼
Has the patient had more than one sexual partner during the interview period?	Yes ▼
Has the patient ever had sex at a sex party?	Yes ▼
Has the patient ever met a partner at a bar or club?	Yes ▼
Has the patient ever met sexual partners on the Internet?	Yes ▼

# Lab Results tab

Edit Lab Result - Apple Pie - Syphilis - 01. Primary Syphilis (710)

[Jump To...]

Save

Cancel

## Lab Results

Person: Apple Pie

Entry Method: Manual

### Specimen Info

Specimen Date\*

04/01/2016

Specimen Number

45657987

Specimen Source\*

Specimen Collection Volume

Specimen Collection Volume Units

Specimen Received Date

MM/DD/YYYY

Report Status

Report Change Date

MM/DD/YYYY

### Tests

Test\*

...Non-Treponemal RPR

Result

Reactive

Result Value

1:128

Result Units

Ref Range

Test Local Desc

Test Local Code

Result Status

Result Local Desc

Result Local Code

Comments

Result Date

04/03/2016

Add

Susceptibilities

# Sortable lab results – event main page

Event Data | Lab Results | Concerns | Persons | Tasks | Event Properties | Event History

Lab No.	Specimen Date	Specimen Number	Specimen Source	Result	Result Status
1	11/05/2015	30934904230		Reactive	Final Results
2	11/04/2015	VC110615-0307	Serum	Positive	Final Results
3	11/04/2015			Reactive	

Add Lab Result | Update Lab Result | Delete Lab Result

Sort by any header

# Sortable lab results – clinical or other packages

Enter Case ID Search Erika Samoff

[Jump To...] Save Save & Stay Cancel

Expand Details

General Diagnostic Information

Clinical Findings (including signs, symptoms, diagnostic tests, and complications)

- Torso
- Extremities (Arms, legs, feet, hands)
- No lesion noted
- Other
- Unknown

# Sortable lab results – clinical or other package

North Carolina Electronic Disease Surveillance System

03. Clinical - Apple Pie - Syphilis - 02. Secondary Syphilis (720)

Lab No.	Specimen Date	Specimen Number	Specimen Source	Result	Result Status	Result Value	Test	Last Update
1	11/05/2015	30934904230		Reactive	Final Results		T pallidum Ab Ser QI IF  ...	11/07/2015
2	11/04/2015	VS110615-0397	Serum	Positive	Final Results		T pallidum IgG Ser QI EIA ...	11/11/2015
3	11/04/2015			Reactive		1:2	...Non-Treponemal RPR	11/16/2015

General Diagnostic Information

Is / was patient symptomatic? No

Date that best reflects the earliest date of illness identification 11/04/2015

Illness identification date represents: Date of laboratory testing

Date of diagnosis by health care provider or LHD 11/04/2015

Location where originally diagnosed

Clinical Findings (including signs, symptoms, diagnostic tests, and complications)

Site of infection

- Anus/Rectum
- Pharyngeal (Mouth/Oral Cavity)
- Urethra
- Penis
- Scrotum
- Vagina
- Cervix
- Nasopharynx
- Eye/Conjunctiva
- Head
- Torso
- Extremities (Arms, legs, feet, hands)
- No lesion noted
- Other
- Unknown

Swollen lymph nodes (lymphadenopathy or lymphadenitis)

Altered mental status

Memory loss

Sort by any header

# Administrative package: Case

01. Administrative - Apple Pie - Syphilis - 01. Primary Syphilis (710) [Jump To...] Save Cancel

+ Expand Details

### Syphilis Staging Tracking

Has the initial syphilis disease staging been reviewed?	Yes ▾
Date staging reviewed and approved	04/12/2016
Approval action	Approved, no change ▾
Syphilis staging comments	710
Requesting staging re-review?	No ▾

### LHD Syphilis Review Information

Current Referral Basis	Positive Lab Test (T1)
<b>Acknowledgement needed for initial staging</b>	
LHD acknowledged event:	
Event acknowledged by:	
Date syphilis event acknowledged:	

### Disease Report Information

Initial Source of Report to Public Health	Laboratory ▾
Laboratory name	LabCorp - Burlington
Date of Initial Report to Public Health (Required)	04/01/2016
Initial method of report	Electronic lab report (ELR) ▾

### Reporter Information

Reporting Physician/Practice	Wake County Human Services
Contact Person/Title ⓘ	Dr Who
Phone number	(999) 111-1111
Fax (area code):	
* Provider Type	02 - STD clinic ▾
Date report entered into system	04/12/2016
Date identified as contact	

### NC County of Residence for the Event

If a different county is investigating this event, the county of residence must share this event. If patient is not a NC resident, enter the NC investigating county here.

NC County of Residence for the Event Wake County ▾



# Administrative Package: Contact

North Carolina Electronic Disease Surveillance System

01. Administrative - Kumquat Pie - Syphilis - 02. Secondary Syphilis (720)

## Syphilis Staging Tracking

Has the initial syphilis disease staging been reviewed?

## Most Recent LHD Syphilis Acknowledgement

Current Referral Basis

LHD acknowledged event:

Event acknowledged by:

Date syphilis event acknowledged:

## Disease Report Information

Initial Source of Report to Public Health

Date of Initial Report to Public Health (Required)

Initial method of report

## Reporter Information

Reporting Physician/Practice

Contact Person/Title

Phone number

Fax (area code):

\* Provider Type

Date report entered into system

Date identified as contact

NC County of Residence for the Event

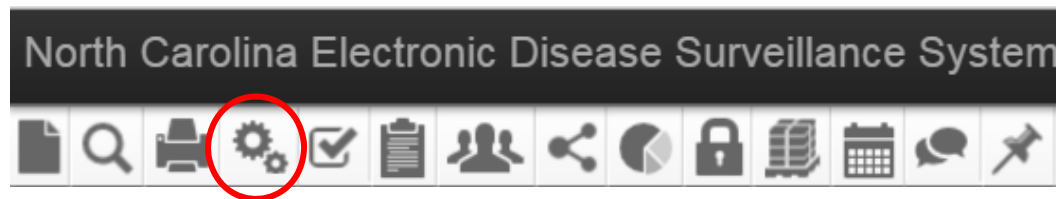


# Administrative package – Local review of labs not required

Laboratory Report Tracking	
Lab review required (local)?	▼
Lab review date (local)?	01/01/1900
Lab review required (regional)?	No ▼
Lab review date(regional)?	01/01/1900
Event date closed	
Last date laboratory tests modified	04/12/2016

**Questions??**

# Acknowledgement of syphilis can be done by workflow/batch



North Carolina Electronic Disease Surveillance System Home ?  Search

### Workflow Queues

Workflow Queues (Hide empty workflows)		
Workflow Queue	Total Count (Assigned to me)	Priority
<b>G.4 HIV/AIDS/Syphilis Specific Workflows: Acknowledgement</b>		
<a href="#">330. LHD Acknowledgement of Syphilis Events: Initial Staging</a>	335 (0)	Medium
<a href="#">335. LHD Acknowledgement of Syphilis Events: Re-Staged</a>	21 (0)	Medium

# Workflows – Workflow Details - 330. LHD Acknowledgement of Syphilis Events: Initial Staging

**Workflow Details - 330. LHD Acknowledgement of Syphilis Events: Initial Staging**

**330. LHD Acknowledgement of Syphilis Events: Initial Staging (Last Update: 04/12/2016 09:45 AM)**

<input type="checkbox"/>	Event	Name	Status	Create Date	Disease	Last I
<input checked="" type="checkbox"/>	170001710- 01. Administrative	Apple Pie	Open	04/12/2016	Syphilis - 01. Primary Syphilis (710)	04/12

Filter:  Contains    Displaying 1...1 of 1 ([Export All](#))

# Case before LHD acknowledgement

01. Administrative - Apple Pie - Syphilis - 01. Primary Syphilis (710) [Jump To...] Save Cancel

[+ Expand Details](#)

Syphilis Staging Tracking	
Has the initial syphilis disease staging been reviewed?	Yes ▾
Date staging reviewed and approved	04/12/2016
Approval action	Approved, no change ▾
Syphilis staging comments	710
Requesting staging re-review?	No ▾

LHD Syphilis Review Information	
Current Referral Basis	Positive Lab Test (T1)
<b>Acknowledgement needed for initial staging</b>	
LHD acknowledged event:	
Event acknowledged by:	
Date syphilis event acknowledged:	

Disease Report Information	
Initial Source of Report to Public Health	Laboratory ▾
Laboratory name	LabCorp - Burlington
Date of Initial Report to Public Health (Required)	04/01/2016
Initial method of report	Electronic lab report (ELR) ▾

Reporter Information	
Reporting Physician/Practice	Wake County Human Services
Contact Person/Title ⓘ	Dr Who
Phone number	(999) 111-1111
Fax (area code):	
* Provider Type	02 - STD clinic ▾
Date report entered into system	04/12/2016
Date identified as contact	

NC County of Residence for the Event	
If a different county is investigating this event, the county of residence must share this event. If patient is not a NC resident, enter the NC investigating county here.	
NC County of Residence for the Event	Wake County ▾

# Case after LHD acknowledgement

01. Administrative - Apple Pie - Syphilis - 01. Primary Syphilis (710) [Jump To...] Save Cancel

[Expand Details](#)

### Syphilis Staging Tracking

Has the initial syphilis disease staging been reviewed?	Yes ▾
Date staging reviewed and approved	04/12/2016
Approval action	Approved, no change ▾
Syphilis staging comments	710
Requesting staging re-review?	No ▾

### LHD Syphilis Review Information

Current Referral Basis	Positive Lab Test (T1)
LHD acknowledged event:	Yes
Event acknowledged by:	LHD Read_Only
Date syphilis event acknowledged:	04/12/2016

### Disease Report Information

Initial Source of Report to Public Health	Laboratory ▾
Laboratory name	LabCorp - Burlington
Date of Initial Report to Public Health (Required)	04/01/2016
Initial method of report	Electronic lab report (ELR) ▾

### Reporter Information

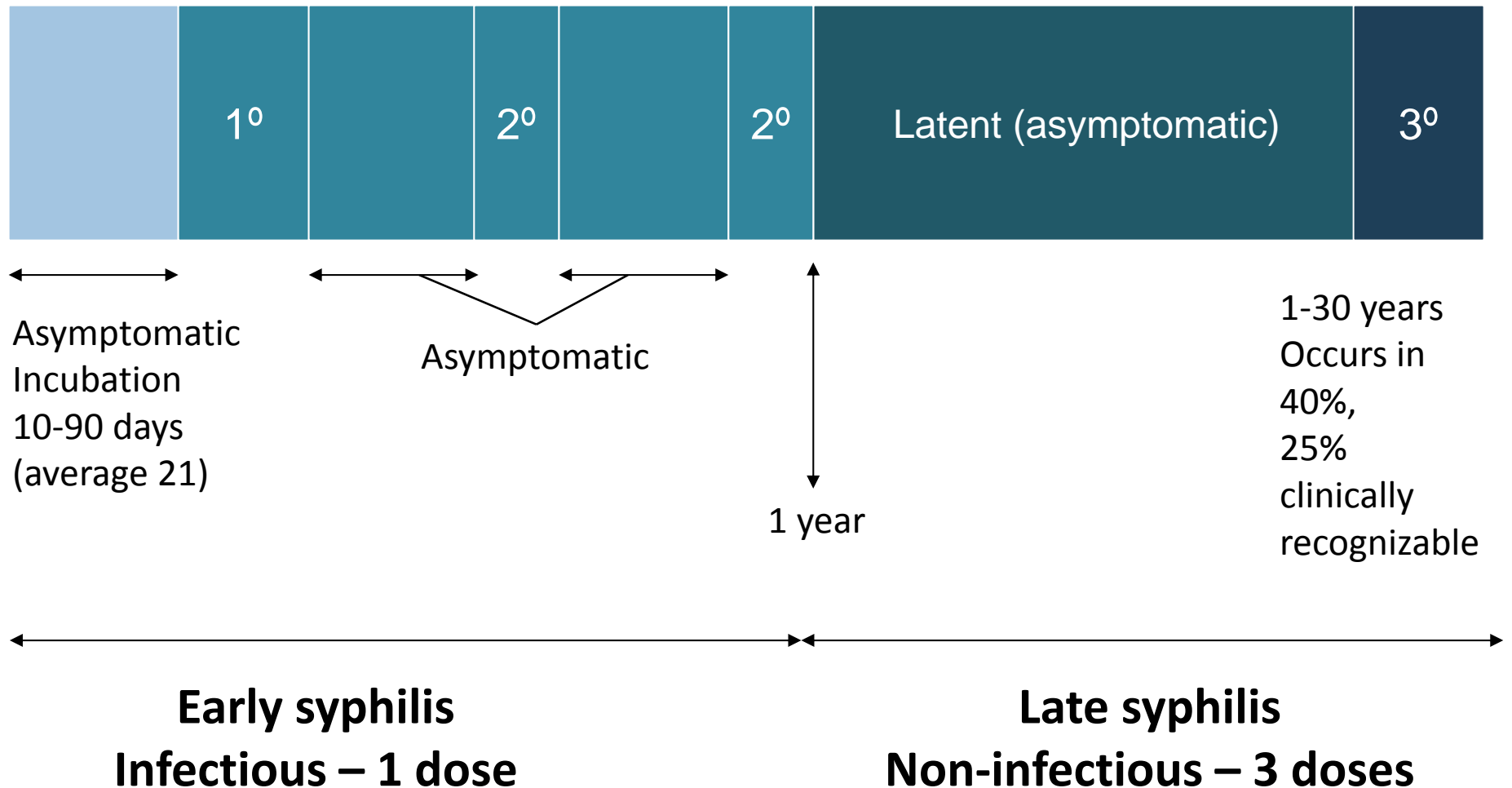
Reporting Physician/Practice	Wake County Human Services
Contact Person/Title ⓘ	Dr Who
Phone number	(999) 111-1111
Fax (area code):	
* Provider Type	02 - STD clinic ▾
Date report entered into system	04/12/2016
Date identified as contact	

### NC County of Residence for the Event

If a different county is investigating this event, the county of residence must share this event. If patient is not a NC resident, enter the NC investigating county here.

NC County of Residence for the Event Wake County ▾

# Staging syphilis



# Workflows -335. LHD Acknowledgement of Syphilis Events: Re-Staged

## Workflow Details - 335. LHD Acknowledgement of Syphilis Events: Re-Staged

335. LHD Acknowledgement of Syphilis Events: Re-Staged (Last Update: 04/12/2016 10:49 AM)									
<input type="checkbox"/>	Event	Name	Status	Create Date	Disease	Last Update	Jurisdiction	Assigned To	As
<input checked="" type="checkbox"/>	101043675- 01. Administrative	Apple Pie	Open	11/11/2015	Syphilis - 02. Secondary Syphilis (720)	04/12/2016	Wake County		



# LHD Event Acknowledgement package

Event Data   Lab Results   Concerns   Persons   Tasks   Event Properties   Event History

Question Packages	
Question Package	Person
▶ 01. Administrative	Quince Pie
02. Demographic	Quince Pie
03. Clinical	Quince Pie
04. Risk History	Quince Pie
10. LHD Event Acknowledgement	Quince Pie
11. Case Definition Wizard	Quince Pie
13. Risk Questions - Part 1	Quince Pie

View Question Package   Wizards    View Wizard

10. LHD Event Acknowledgement - Apple Pie - Syphilis - 02. S [Jump To...] Save Save & Stay Cancel

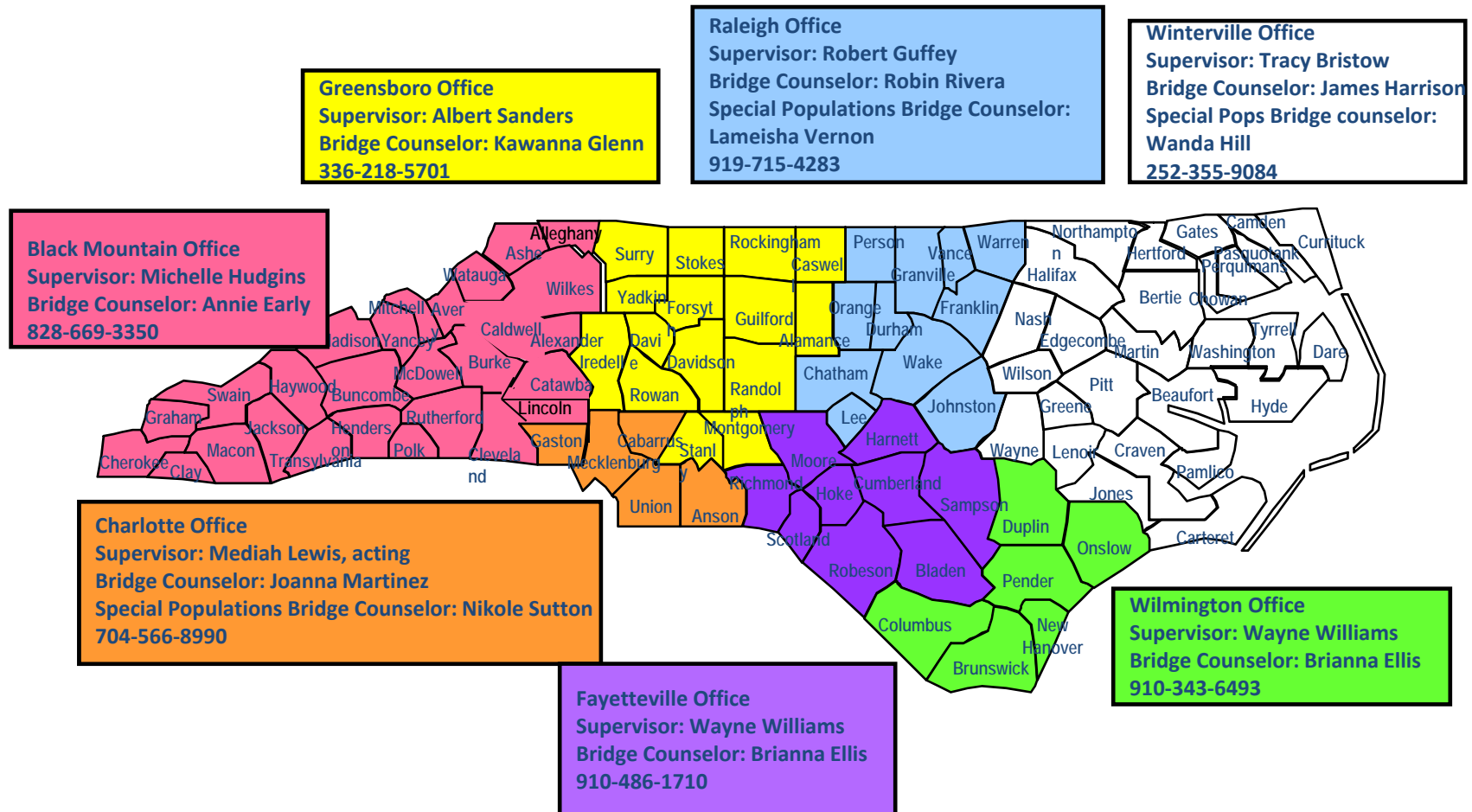
[Expand Details](#)

LHD Event Management Tracking	
NC County of Residence for the Event	Wake County
LHD has acknowledged the event for their county	Yes
Event acknowledged by	Fran Thomas
Date acknowledged	01/08/2016
LHD has acknowledged the event for their county	Yes
Event acknowledged by	Christy Crowley
Date acknowledged	04/12/2016

Save Cancel Help

**Questions??**

# Regional offices



**North Carolina Division of Public Health  
 Communicable Disease Branch Regional Offices and State Bridge Counselors**

*Last edited: 7/22/2014*

# Searching: Cases and contacts

- Case events

North Carolina Electronic Disease Surveillance System

Event Summary

Basic Information	
Event ID:	101052451
Disease:	Syphilis - 02. Secondary Syphilis (720)
Person:	Quince Pie Birth Date: 01/01/1971 ( 45 Male ) Phone: (712) 454-9910
Type:	Batch
Investigation Status:	Open
Linked Events/Contacts:	2 linked event(s)/contact(s) ( <a href="#">View</a> )
Linked Exposure Sites:	0 linked exposure site(s) ( <a href="#">View</a> )
Attachments:	0 attachment(s) ( <a href="#">Add</a> )
Notifications:	Classification: Confirmed County of residence: Wake County Event is in workflows ( <a href="#">View List</a> )

- Contact events

North Carolina Electronic Disease Surveillance System

Event Summary

Basic Information	
Event ID:	101052452
Disease:	Syphilis - 02. Secondary Syphilis (720)
Person:	Kumquat Pie Birth Date: 01/01/1989 ( 36 Female )
Type:	Interactive
Investigation Status:	Open
Linked Events/Contacts:	1 linked event(s)/contact(s) ( <a href="#">View</a> )
Linked Exposure Sites:	0 linked exposure site(s) ( <a href="#">View</a> )
Attachments:	0 attachment(s) ( <a href="#">Add</a> )
Notifications:	<b>Initial date of report to public health is missing and is required</b> <b>Race has not been selected for this person</b> Classification: Contact County of residence: Wake County Event is in workflows ( <a href="#">View List</a> )

# Searching: Cases and contacts

- Case events

North Carolina Electronic Disease Surveillance System

Event Summary

Basic Information	
Event ID:	101052451
Disease:	Syphilis - 02. Secondary Syphilis (720)
Person:	<a href="#">Quince Pie</a> Birth Date: 01/01/1971 ( 45 Male ) Phone: (712) 454-9910
Type:	Batch
Investigation Status:	Open
Linked Events/Contacts:	2 linked event(s)/contact(s) ( <a href="#">View</a> )
Linked Exposure Sites:	0 linked exposure site(s) ( <a href="#">View</a> )
Attachments:	0 attachment(s) ( <a href="#">Add</a> )
Notifications:	<b>Classification: Confirmed</b> <b>County of residence: Wake County</b> Event is in workflows ( <a href="#">View List</a> )

- Contact events

North Carolina Electronic Disease Surveillance System

Event Summary

Basic Information	
Event ID:	101052452
Disease:	Syphilis - 02. Secondary Syphilis (720)
Person:	<a href="#">Kumquat Pie</a> Birth Date: 01/01/1980 ( 36 Female )
Type:	Interactive
Investigation Status:	Open
Linked Events/Contacts:	1 linked event(s)/contact(s) ( <a href="#">View</a> )
Linked Exposure Sites:	0 linked exposure site(s) ( <a href="#">View</a> )
Attachments:	0 attachment(s) ( <a href="#">Add</a> )
Notifications:	<b>Initial date of report to public health is missing and is required</b> <b>Race has not been selected for this person</b> <b>Classification: Contact</b> <b>County of residence: Wake County</b> Event is in workflows ( <a href="#">View List</a> )

**Contacts will NOT appear in workflows**

# Reports

- Line list reports
  - Identified and deidentified line list
  - Provider and treatment report
  - Risk report
- Summary reports
  - Demographic



# Reports: Cases and Contacts

- Reports have choices
- **Early vs. late disease**
- **Cases (confirmed) vs. contacts**

North Carolina Electronic Disease Surveillance System

## Maven Reporting

**Maven Reporting**

Category: Custom Reports ▾

Select Report: Event Line List - Deidentified - By Event Create Date - Security Profile Used ▾

Description: For selected parameters displays: Event ID, Create Date, Partial Zip code for person's home address, Reporter, NC County of Residence for Event, Report to CDC date, Symptom Onset Date and Specimen Date

Disease: Syphilis - 01. Primary Syphilis (710)  
Syphilis - 02. Secondary Syphilis (720)  
Syphilis - 03. Early Latent Syphilis (730)  
Syphilis - 04. Latent (unk dur) Syphilis (740)

Jurisdiction: Alamance County  
Alexander County  
Alleghany County  
Anson County

Classification: Confirmed  
Contact  
Does not meet criteria  
Probable

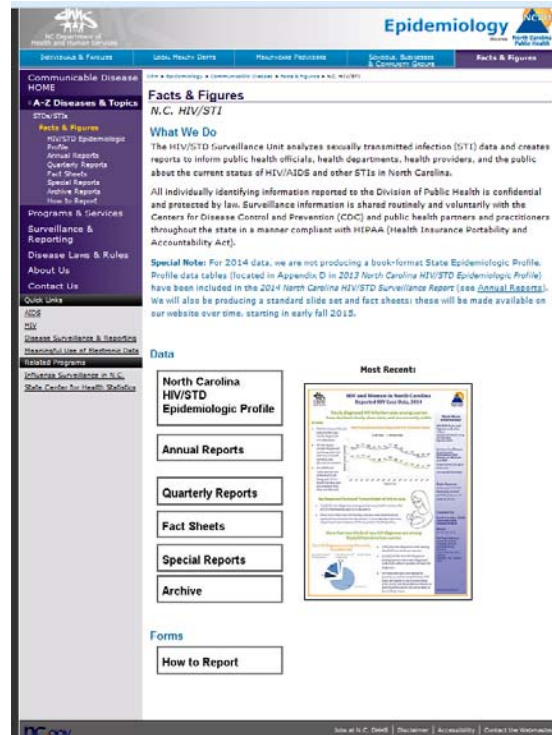
Start Date\*: MM/DD/YYYY

End Date\*: MM/DD/YYYY

This report has been configured to run on the reporting database.

Run Report    Export Results    Dashboard    Help

# Where to Find Information?



<http://epi.publichealth.nc.gov/cd/stds/figures.html>

## Data requests

Mara Larson 919-733-9607 mara.larson@dhhs.nc.gov

Jason Maxwell 919-715-0536 jason.maxwell@dhhs.nc.gov