

Appendix I: Measure Number 5a.1

Bureau of Epidemiology (BOE) Core Epidemiology Measures

These measures will be used to determine the percentage of public health disease report response components in place for the County Health Department (CHD) Snapshot.

Accessibility

1. The BOE will conduct two sets of after-hours phone drills. Each drill will consist of an after-hours evening and weekend phone call to the CHD to report an immediately notifiable condition. One point is awarded if the BOE can speak with a CHD employee or representative (not just an answering service) within 15 minutes to report the notifiable disease. The CHD will need to REPORT the immediately notifiable condition back to the BOE after-hours on-call number within 1 hour of the start of the drill. One point will be awarded for a report made to the BOE within the time frame. There are a possible 8 points (2 points per phone call and 4 points per set of drills) for this measure. Answer is 'acceptable' if the CHD responded to phone drills and received at least **6/8 points**.

Go to: <http://def.sharepoint.doh.ad.state.fl.us/DiseaseControl/EPI/QI/default.aspx>

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Shared Documents

Type	Name	Modified By
Document	Posting to EpiCom thru FDEMS	McCombs, Katherine G
Document	Primary Epi CHD Contact List 9.2.10	Bailey, Chad E
Document	DOH Record Retention Manual Individual Schedules Manual	McCombs, Katherine G
Document	Reportable Disease List-Orange-UPDATED August 13, 2010	McCombs, Katherine G
Document	Reportable Disease List-Santa Rosa and Escambia	McCombs, Katherine G
Document	Reportable Diseases Conditions in FL Practitioner Guide-Orange CHD	McCombs, Katherine G
Document	QA_QI_plan_County_Example	McCombs, Katherine G
Document	Organism Outline 8_14_09	McCombs, Katherine G
Document	CHD Snapshot Data 2011	McCombs, Katherine G
Document	CHD SNAPSHOT DATA 2011	McCombs, Katherine G
Document	QI Workgroup Meeting Agenda and Notes 2011	McCombs, Katherine G

(More Items...)

Add new document

Tasks

Title Assigned To Status

There are no items to show in this view of the "Tasks" list. To create a new item, click "Add new task" below.

Add new task

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http://def.sharepoint.doh.ad.state.fl.us/DiseaseControl/EPI/QI/default.aspx?RootFolder=%2fDiseaseControl%2fEPI%2fQI%2fShared%20Documents%2fCHD%20Snapshot%20Data%202011&View=%7b916CEB33%2d2FF6%2d4FB4%2db769%2dA3909D30F4

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Documents Pictures Lists Contacts Events Discussions General Discussion Surveys

Shared Documents

Type	Name	Modified By
Document	Phone Drill Results 2011 NEW	McCombs, Katherine G
Document	2011 Bi-weekly - QI Snapshot	McCombs, Katherine G
Document	2011 Bi-weekly - QI Snapshot	Bailey, Chad E
Document	Regional Conference Call Attendance-2011	McCombs, Katherine G
Document	2011 Grand Rounds - QI Snapshot	Bailey, Chad E

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Tasks

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There are no items to show in this view of the "Tasks" list. To create a new item, click "Add new task" below.

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Data Quality

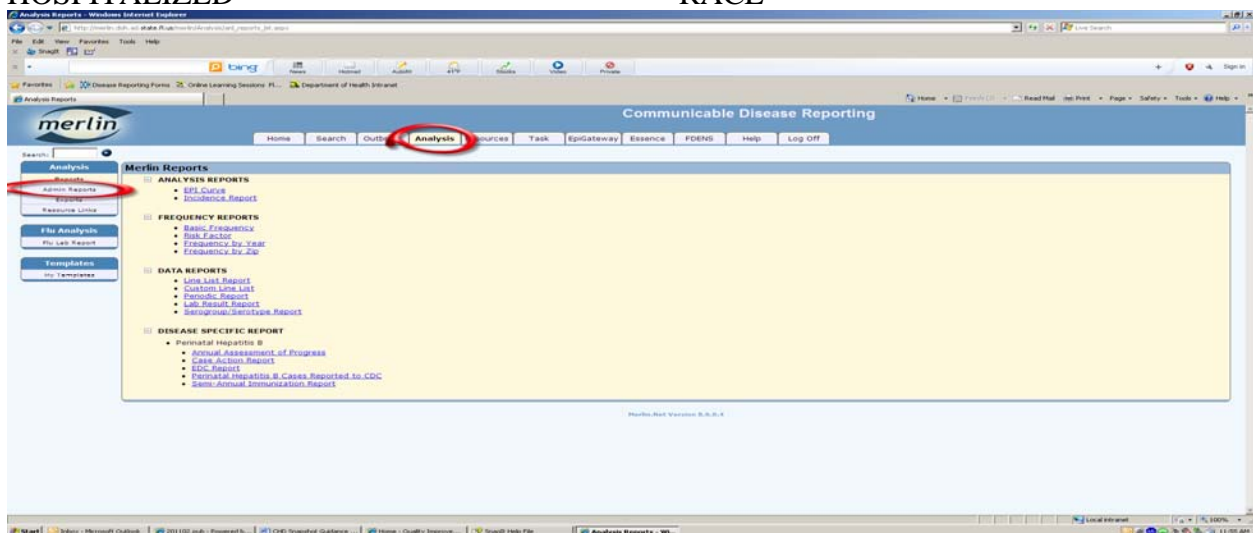
2. Run the **Merlin Data Quality Report** for each CHD for the previous report year to obtain the total number of cases with at least one unknown value using the selected diseases or conditions listed below (confirmed and probable cases only). Calculate the percentage of cases with at least one unknown value. Answer ‘acceptable’ if the CHD has **30% or less missing or unknown values** for all data points. Case Manager selection will be “All”.

- Anthrax
- Botulism
- Brucellosis
- Cholera
- Diphtheria
- Glanders
- H.influenzae
- Hantavirus Infection
- Hepatitis A
- HUS
- Influenza-associated pediatric mortality
- Listeriosis
- Meningococcal Disease
- Neurotoxic Shellfish poisoning
- Pertussis
- Plague
- Poliomyelitis
- Rabies (human)
- Ricin toxicity
- Rubella
- Salmonellosis
- Shigellosis
- SARS
- Smallpox
- Staph aureus (VISA or VRSA)
- Staph enterotoxin B
- Tularemia
- Typhoid fever
- Typhus fever
- Vaccinia Disease
- Venezuelan equine encephalitis virus disease
- Viral hemorrhagic fevers
- Yellow fever

The variables that will be evaluated are those that are “required” in Merlin:

DAYCARE
DXSTATUS
ETHNICITY
GENDER
HOSPITALIZED

IMPORTED
OCCUPATION
ORIGIN
OUTBREAK
RACE



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Merlin Reports

- QI REPORTS
 - QI Assessment (Snapshot)
 - Performance Report
 - Data Quality
- CASE MANAGEMENT REPORTS
 - Case Management Listing Report
- OTHERS
 - Frequency by Laboratory
 - Frequency by Provider

QI Measures Search

County: CHARLOTTE
 Date Range: 01/03/2010 Through 01/01/2011
 Refresh

Overall Score
 Score as of: Tuesday, February 15, 2011 11:59 AM
 Prepared By: MCCOMBSK
 Date Range: 01/03/2010 - 01/01/2011
PASS**

Measure #2 - Data Quality

Measure	Pass/Fail	Raw Score	State Average
Percent of Total Cases with 1 or more Missing or Unknown Values (<=30)	PASS	0.0%	17.7%

Measure #3 - Timeliness (Performance Report)

Measure	Pass/Fail	Raw Score	State Average
% within 14 days (>=75)	PASS	88.7%	87.9%

Measure #6 - Effectiveness of Investigations

Measure	Pass/Fail	Raw Score	State Average
The number of acceptable investigations - This measure is not available at this time			

Timeliness

3. Run the **Merlin Performance Report** for each CHD for the previous report year, 2011. Review the percentage of confirmed and probable cases for all diseases, **except** the ones listed below, reported from the CHD to BOE within **14 days**. Answer is 'acceptable' if the total for the CHD is **75%** or higher. Cases of the following diseases or conditions will NOT be included in the analysis:

- Arboviruses
 - California serogroup virus
 - Dengue
 - Eastern equine encephalitis
 - St. Louis encephalitis
- Venezuelan equine encephalitis
- West Nile virus
- Western equine encephalitis
- Yellow fever
- Arsenic poisoning

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- Carbon monoxide poisoning
- CJD
- Dengue
- Ehrlichiosis/ Anaplosmosis (all)
- Hansen's disease (Leprosy)
- Hepatitis B (chronic, perinatal, and HBsAg+ preg women)
- Hepatitis C (chronic)
- Lead poisoning
- Legionellosis
- Leptospirosis
- Lyme disease
- Mercury poisoning
- Pesticide-related illness and injury
- Psittacosis
- Q fever (acute or chronic)
- Rabies (animal or possible exposure)
- Rocky Mountain Spotted Fever
- Toxoplasmosis
- Trichinellosis
- Typhus Fever
- Viral hemorrhagic fever

Gather data in the same manner you will for the Data Quality measure (#2)

The screenshot shows the Merlin Communicable Disease Reporting interface. The 'QI Measures Search' section is highlighted with a red circle, showing the location set to 'CHARLOTTE' and the date range from '01/03/2010' to '01/01/2011'. A 'Refresh' button is also circled in red. The 'Overall Score' section shows a 'PASS**' result. Below this, a table lists the results for three measures:

Measure	Pass/Fail	Raw Score	State Average
Measure #2 - Data Quality			
Percent of Total Cases with 1 or more Missing or Unknown Values (<=30)	PASS	0.0%	17.7%
Measure #3 - Timeliness (Performance Report)			
% within 14 days (>=75)	PASS	86.7%	87.9%
Measure #6 - Effectiveness of Investigations			
The number of acceptable investigations - This measure is not available at this time			

Education/Training

4. Percent of **Bi-weekly Epidemiology Conference Calls or Regional Epidemiology Calls and Grand Rounds** calls where at least one epidemiologist called in and participated or requested the recording by contacting the BOE and receiving the file electronically.

For counties with populations greater than 100,000 people, answer 'acceptable' if someone from the county health department called in to at least **20 Bi-weekly Epidemiology Conference Calls or Regional Conference Calls** in the 2011 calendar year, as well as at least **3 Grand Rounds** presentations.

For counties with less than 100,000 people, answer 'acceptable' if someone from the health department called in to at least **12 Bi-weekly Epidemiology Conference Calls or Regional Conference Calls** in the 2011 calendar year, as well as at least **3 Grand Rounds** presentations.

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The top screenshot shows a SharePoint site titled 'Quality Improvement Home'. The left navigation pane includes 'Documents', 'Pictures', 'Lists', 'Contacts', 'Events', 'Discussions', 'General Discussion', and 'Surveys'. The main content area displays a 'Shared Documents' list with the following items:

Type	Name	Modified By
Document	Posting to EpiCom thru FDENS	McCombs, Katherine G
Document	Primary Epi CHD Contact List 9.2.10	Bailey, Chad E
Document	DOH Record Retention Manual Individual Schedules Manual	McCombs, Katherine G
Document	Reportable Disease List-Orange-UPDATED August 13, 2010	McCombs, Katherine G
Document	Reportable Disease List-Santa Rosa and Escambia	McCombs, Katherine G
Document	Reportable Diseases Conditions in FL Practitioner Guide-Orange CHD	McCombs, Katherine G
Document	QA_QI_plan_County_Example	McCombs, Katherine G
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Document	CHD Snapshot Data 2011	McCombs, Katherine G
Document	CHD SNAPSHOT DATA 2011	McCombs, Katherine G
Document	QI Workgroup Meeting Agenda and Notes 2011	McCombs, Katherine G

The bottom screenshot shows the same site with a different 'Shared Documents' list:

Type	Name	Modified By
Document	2011 Bi-weekly Reporting by Week and County 2011	McCombs, Katherine G
Document	2011 BI-weekly - QI Snapshot	Bailey, Chad E
Document	Regional Conference Call Attendance-2011	McCombs, Katherine G
Document	2011 Grand Rounds - QI Snapshot	Bailey, Chad E

Surveillance and Investigation

5. Counties are asked to report the county activity code each week (by Tuesday at 5 p.m.) during the influenza season. To determine their code, it is necessary to: communicate with health care providers, monitor syndromic surveillance if available, and be aware of possible influenza-like illness (ILI) and or influenza outbreaks in the community. Percentage of overall reporting for the season, meaning number of weeks reported/33 (33=weeks of the Influenza Season, Weeks 1-20 and 40-53 of the year 2010). Answer 'acceptable' if the percentage is over **75%**.

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Home Documents and Lists Create Site Settings Help

Quality Improvement Home

Documents
Pictures
Lists
Contacts
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Discussions
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Surveys

Shared Documents

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	Organism Outline 8_14_09	McCombs, Katherine G
	2009 QI Snapshot Program	McCombs, Katherine G
	CHD Snapshot Data 2011	McCombs, Katherine G
	CHD SNAPSHOT DATA 2011	McCombs, Katherine G
	QI Workgroup Meeting Agenda and Notes 2011	McCombs, Katherine G

(More Items...)

Add new document

Tasks

Title Assigned To Status

There are no items to show in this view of the "Tasks" list. To create a new item, click "Add new task" below.

Add new task

Home - Quality Improvement - Windows Internet Explorer

http://def.sharepoint.doh.ad.state.fl.us/DiseaseControl/EPI/QI/default.aspx?RootFolder=%2FDiseaseControl%2FEPI%2FQI%2FShared%20Documents%2FCHD%20Snapshot%20Data%202011&View=%7B916CEB33%2D22FF6%2D4FB4%2DB769%2D4A3909D30

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Home - Quality Improvement

Home Documents and Lists Create Site Settings Help

Quality Improvement Home

Documents
Pictures
Lists
Contacts
Events
Discussions
General Discussion
Surveys

Shared Documents

Type	Name	Modified By
	2011 Grand Rounds - QI Snapshot	McCombs, Katherine G
	ILI Reporting by Week and County 2011	McCombs, Katherine G
	2011 Grand Rounds - QI Snapshot	Bailey, Chad E
	Regional Conference Call Attendance-2011	McCombs, Katherine G
	2011 Grand Rounds - QI Snapshot	Bailey, Chad E

Add new document

Tasks

Title Assigned To Status

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Thoroughness of Investigation

6. Identify the number of persons reported (confirmed and probable) who have the illness/ infection listed and who were interviewed* compared to the total number of persons reported with the infection/ illness. The measure is acceptable if the final score meets or exceeds the percentages listed below by the disease/ condition, and as weighted based on its public health importance.

Disease/ Condition	Percentage Interviewed/ Total	Weight
Campylobacteriosis	70%	1
Dengue	80%	3
<i>E. coli</i> , Shiga Toxin-Producing (STEC)	70%	2
Hepatitis A	70%	3
Legionellosis	85%	2
Malaria	55%	3
Meningococcal Disease	90%	4
Pertussis	90%	3
Salmonellosis	75%	1
Shigellosis	70%	2

*Interviewed cases include all those where county health department, state health department personnel and/or their partners (e.g.: hospital or military base personnel) spoke with the case or their proxy by phone or face to face and conducted a CHD/ FDOH case report form sponsored (guided) interview. Interviewed will also include questionnaires mailed to the case and completed by either the case or their proxy.

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Go to ESSENCE: https://essenceweb.isf.com/florida_5_1_14/servlet/HomePageServlet

If you do not have access to ESSENCE, contact Aaron Kite-Powell.

Select the **Query Portal** tab:

ESSENCE - Florida Home Page

Version 1.15



System Information	
Date	Description
12Jan12	Welcome to ESSENCE version 1.13.
12Jan12	Alachua reporting (2 /2) hospitals for 11 Jan 2012
12Jan12	Bay reporting (1 /1) hospitals for 11 Jan 2012
12Jan12	Brevard reporting (1 /1) hospitals for 11 Jan 2012
12Jan12	Broward reporting (17/17) hospitals for 11 Jan 2012
12Jan12	Charlotte reporting (1 /1) hospitals for 11 Jan 2012
12Jan12	Clay reporting (1 /1) hospitals for 11 Jan 2012
12Jan12	Collier reporting (4 /4) hospitals for 11 Jan 2012
12Jan12	Duval reporting (8 /8) hospitals for 11 Jan 2012
12Jan12	Escambia reporting (2 /2) hospitals for 11 Jan 2012
12Jan12	Flagler reporting (1 /1) hospitals for 11 Jan 2012
12Jan12	Gulf reporting (1 /1) hospitals for 11 Jan 2012

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Select the **Merlin Reportable Disease Data** for the Data Source then click Submit:

History of ESSENCE | Syndrome Definitions | Detector Algorithms | Data Dictionary | Help | Log Out

Alert List | myAlerts | myESSENCE | Event List | Overview Portal | Query Portal | Stat Table | Matrix Portal | Weekly Percent | P&I Mortality | Map Portal | Bookmarks | Query Manager

HOME | Bookmark Name | Bookmark Page | Create Event | Add URL to Comment: No Comments Available | Add

ESSENCE - Florida Data Query

Next Selections:

Select Data Source:

[Questions or Problems?](#)

Select **County** for the Geography System and **Daily** for Time Resolution and click Submit:

ESSENCE - Florida Data Query

Current Data Query Selections

Data Source: Merlin Reportable Diseases Data

Next Selections:

Select Geography System: | Select Time Resolution:

[Questions or Problems?](#)

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Run the following Query Portal program being sure to choose your own CHD:

ESSENCE - Florida Table Builder	
Data Source	Merlin Reportable Diseases Data
Geography System	County
Time Resolution	Daily
County	All
Reportable Disease	CAMPYLOBACTERIOSIS, DENGUE FEVER, DENGUE HEMORRHAGIC FEVER, ESCHERICHIA COLI- SHIGA TOXIN PRODUCING, HEPATITIS A, LEGIONELLOSIS, MALARIA, Meningococcal Disease, PERTUSSIS, SALMONELLOSIS, SHIGELLOSIS
Diagnosis Status	CONFIRMED, PROBABLE
Case Status	REPORTED
Race	All
Ethnicity	All
Sex	All
Age Group	All
Occupation	All
Imported	All
Daycare Associated	All
Outbreak Status	All
Case Classification	All
Followup Status	All
Final Known Outcome	All
Hospitalized	All
Investigated	All
Interviewed	All
Symptomatic	All
Jurisdiction	Florida Case
Date Type	Reported To Epidemiology
Detector	Regression/EWMA 1.2
Start Date	2Jan2011
End Date	31Dec2011

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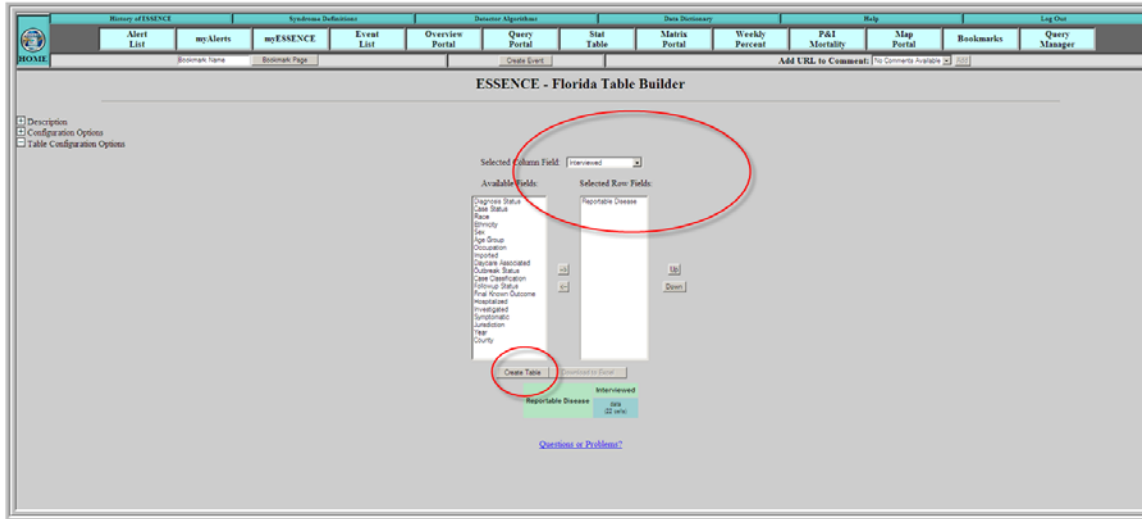
Make the following selections. Choose your **County**. In the Reportable Diseases section, choose the diseases and conditions from the table above holding down the **Ctrl** key to select only those diseases in the measure. Be sure to select only **Confirmed and Probable** cases that have been **Reported**. Also select **FL Cases** only that have been **Reported to Epidemiology** and choose the correct **Start and End Dates (1/2/11-12/31/11)**. Then choose the **Table Builder** tab on the bottom:

ESSENCE - Florida Table Builder

Data Configuration			
Select County:	<div style="border: 1px solid gray; padding: 2px;"> All Counties ALACHUA BAKER BAY BRADFORD </div>	Select Reportable Disease:	<div style="border: 1px solid gray; padding: 2px;"> CALIFORNIA SEROGROUP- NEUROINVASIVE CALIFORNIA SEROGROUP- NON-NEUROINVASIVE CAMPYLOBACTERIOSIS CARBON MONOXIDE POISONING CIGUATERA </div>
Select Diagnosis Status:	<div style="border: 1px solid gray; padding: 2px;"> All Diagnosis Statuses CONFIRMED PROBABLE SUSPECT UNKNOWN </div>	Select Case Status:	<div style="border: 1px solid gray; padding: 2px;"> Case Statuses MARKED FOR DELETION NOT YET REPORTED REPORTED </div>
Select Race:	<div style="border: 1px solid gray; padding: 2px;"> ASIAN/PACIFIC ISLANDER BLACK OTHER UNKNOWN WHITE </div>	Select Ethnicity:	<div style="border: 1px solid gray; padding: 2px;"> All Ethnicities HISPANIC NHISPANIC UNKNOWN </div>
Select Sex:	<div style="border: 1px solid gray; padding: 2px;"> All Sexes Female Male Unknown </div>	Select Age Group:	<div style="border: 1px solid gray; padding: 2px;"> All Age Groups Unknown 00-04 05-19 20-34 </div>
Select Age Range:	Equal <input type="text"/>	Select Occupation:	<div style="border: 1px solid gray; padding: 2px;"> All Occupations FOOD HANDLER HEALTH CARE WORKER NO OR NON-SENSITIVE OCCUPATION UNKNOWN </div>
Select Imported:	<div style="border: 1px solid gray; padding: 2px;"> All Imports Acquired in Florida Acquired in U.S., but not in Florida Acquired outside the U.S. Unknown </div>	Select Daycare Associated:	<div style="border: 1px solid gray; padding: 2px;"> All Daycare Associated ATTENDEE NO STAFF UNKNOWN </div>
Select Outbreak Status:	<div style="border: 1px solid gray; padding: 2px;"> All Outbreak Statuses OUTBREAK ASSOCIATED SPORADIC UNKNOWN </div>	Select Case Classification:	<div style="border: 1px solid gray; padding: 2px;"> All Case Classifications PRIMARY SECONDARY UNKNOWN DATA NOT AVAILABLE </div>
Select Followup Status:	<div style="border: 1px solid gray; padding: 2px;"> All Followup Statuses INTERVIEWED INVESTIGATED BUT NOT INTERVIEWED NOT INVESTIGATED DATA NOT AVAILABLE </div>	Select Final Known Outcome:	<div style="border: 1px solid gray; padding: 2px;"> All Final Known Outcomes DIED ILL AT TIME OF REPORTING RECOVERED UNKNOWN </div>
Select Hospitalized:	<div style="border: 1px solid gray; padding: 2px;"> All Hospitalized NO UNKNOWN YES DATA NOT AVAILABLE </div>	Select Investigated:	<div style="border: 1px solid gray; padding: 2px;"> All Investigated YES NO </div>
Select Interviewed:	<div style="border: 1px solid gray; padding: 2px;"> All Interviewed YES NO </div>	Select Symptomatic:	<div style="border: 1px solid gray; padding: 2px;"> All Symptomatic YES NO UNKNOWN </div>
Select Jurisdiction:	<div style="border: 1px solid gray; padding: 2px;"> All Jurisdictions Florida Case US, Non-Florida Case Out of the US Unknown - Not Available </div>	Select Date Type:	<div style="border: 1px solid gray; padding: 2px;"> Reported To Epidemiology </div>
Select Detector:	<div style="border: 1px solid gray; padding: 2px;"> Regression/EWMA 1.2 </div>		
Select Start Date:	<div style="border: 1px solid gray; padding: 2px;"> 02Jan11 </div>	Select End Date:	<div style="border: 1px solid gray; padding: 2px;"> 31Dec11 </div>
<div style="display: flex; justify-content: center; gap: 10px;"> Table Builder Time Series Data Details Graph Builder Overview Portal </div>			

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Choose **Interviewed** for the Column Field and **Reportable Disease** for the Row Field then click the **Create Table** button.



In the Data Table, choose **Show All Totals** to see the totals for each column and row.

Reportable Disease	Interviewed	
	NO	YES
CAMPYLOBACTERIOSIS	7	65
DENGUE FEVER	0	0
DENGUE HEMORRHAGIC FEVER	0	0
ESCHERICHIA COLI- SHIGA TOXIN PRODUCING	0	5
HEPATITIS A	0	3
LEGIONELLOSIS	0	11
MALARIA	1	10
Meningococcal Disease	0	1
PERTUSSIS	0	23
SALMONELLOSIS	37	323
SHIGELLOSIS	22	109

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Use the data captured in the Data Table to calculate the Thoroughness of Investigation measure. Plug the values for the “Interviewed” column and “Total” column into the Thoroughness of Investigation Excel Calculation Spreadsheet:

Create Table Download to Excel

Reportable Disease Interviewed
data
(22 cells)

Data Table

Hide All Totals Hide Zero Count Rows

Reportable Disease <input type="button" value="Hide Totals"/>	Interviewed <input type="button" value="Hide Totals"/>		Total
	NO	YES	
CAMPYLOBACTERIOSIS	7	65	72
DENGUE FEVER	0	0	0
DENGUE HEMORRHAGIC FEVER	0	0	0
ESCHERICHIA COLI- SHIGA TOXIN PRODUCING	0	5	5
HEPATITIS A	0	3	3
LEGIONELLOSIS	0	11	11
MALARIA	1	10	11
Meningococcal Disease	0	1	1
PERTUSSIS	0	23	23
SALMONELLOSIS	37	323	360
SHIGELLOSIS	22	109	131
Total	67	550	617

[Questions or Problems?](#)

<http://def.sharepoint.doh.ad.state.fl.us/DiseaseControl/EPI/QI/default.aspx?RootFolder=%2fDiseaseControl%2fEPI%2fQI%2fShared%20Documents%2fCHD%20Snapshot%20Data%202011&View=%7b916CEB33%2d2FF6%2d4FB4%2dB769%2dA3909D30F43E%7d>

If the CHDs values exceed or meet the desired values, the CHD will pass this measure.

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Effectiveness of Initiation of Public Health Control Measures-PILOT

7. Identify whether an appropriate control measure was initiated within the specified timeframe. Control measure data for the diseases listed below will be collected in Merlin. For every case where a control measure was implemented, the time to initiate a control measure will be calculated by subtracting the day the CHD was notified of the infection/illness from the date the case-patient was interviewed*. To pass this measure, the percent of all reported cases with a control measure completed in the appropriate time frame must meet the minimum standard for all disease/ conditions in order to pass this measure. **This measure will be used this year as a means to gather data and information only. The results of this measure will not impact the CHD Snapshot data for calendar year 2011.**

Disease/ Condition	Control Measure Standard	Reporting Disease Standard	Percent that must be initiated in time frame
Botulism (confirmed)	1 day	Phone Immediately	100%
Enteric Disease due to E. coli, Shiga Toxin-Producing (confirmed, probable)	3 days	Phone Immediately	90%
Hepatitis A (confirmed)	1 week	Phone Immediately	90%
Measles (confirmed, probable)	1 day	Phone Immediately Upon Suspicion	100%
Meningococcal Disease (confirmed)	1 day	Phone Immediately Upon Suspicion	100%
Salmonellosis (confirmed, probable)	5 days	Next Business Day	70%
Shigellosis (confirmed, probable)	3 days	Next Business Day	80%
Tularemia (confirmed, probable)	2 days	Phone Immediately Upon Suspicion	100%

*For cases where a control measure was implemented, interview date will be used as the proxy for initiating the control measure.

Final Score:

There are 6 measures that will be calculated. If the CHD receives an “acceptable” for at least **4/ 6 (67%)** measures, the CHD will be considered having the requirements in the CHD Snapshot for Epidemiology.

If you need access to the QI SharePoint website, please contact Katherine McCombs.