Bureau of Epidemiology & Public Health Informatics

Kansas Department of Health and Environment

EPI UPDATES

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Bureau of Epidemiology & Public Health Informatics

D. Charles Hunt, MPH, State Epidemiologist & Director, BEPHI

Lou Saadi, Ph.D., Deputy Director & State Registrar

Sheri Tubach, MPH, MS, Senior Epidemiologist Director, IDER

Daniel Neises, MPH Senior Epidemiologist

Farah Ahmed, PhD, MPH, Environmental Health Officer

Ingrid Garrison, DVM, MPH, DACVPM, State Public Health Veterinarian

Bonnie Liscek, MPS, Director, Surveillance Systems & *Epi Updates* Editor

Curtis State Office Building
1000 SW Jackson St.
Topeka, KS 66612

Email: epihotline@kdheks.gov

Epi Hotline: 877-427-7317

Active Monitoring of Travelers Returning from Ebola Affected Countries

by Sheri Tubach, MPH, MS

The Centers for Disease Control and Prevention (CDC) and Department of Homeland Security (DHS), Customs and Border Protection (CBP) are conducting entry screening of travelers who have traveled from or through Guinea, Liberia, or Sierra Leone.

Trained CBP staff will observe travelers for signs of illness, take their temperature with a non-contact thermometer, ask them a series of health and exposure questions, provide health information for Ebola and reminders to monitor themselves for symptoms, and be given an Ebola Check and Report Ebola (CARE) kit.

If the travelers have fever, symptoms, or the health questionnaire reveals possible Ebola exposure, they will be evaluated by a CDC quarantine station public health officer. The public health officer will take another temperature reading and make a public health assessment to determine if the traveler can continue to travel to their destination city; be taken to the hospital for evaluation, testing, and treatment; or referred to a local health department (LHD) for further monitoring and support.

The following public health actions will occur after the traveler has returned to their residence in Kansas.

- LHD will be notified of travelers who are returning from an Ebola affected country.
- LHD staff will contact the traveler.
  - Perform a risk assessment
  - Set up a process for daily active monitoring
- LHD staff will conduct daily follow-up with persons under active monitoring to assess temperature, symptoms, and any potential concerns or problems.
- EpiTrax will be used to track all persons under active monitoring

A power point presentation and this protocol will be available on KS-TRAIN. Information about these resources will be sent out shortly.

Budget Period 3 (July 2014 – June 2015), as of 11/3/14

Disease Reporting and Disease Control Performance Measures

by Daniel Neises, MPH

Public Health Emergency Preparedness Cooperative Agreement
Capability #13: Public Health Surveillance and Epidemiological Investigation

Selected Diseases:

Disease	Case Classification Criteria
Hepatitis A	confirmed
Salmonellosis	confirmed, excluding typhoid fever
E. coli, STEC	confirmed
Shigellosis	confirmed
Tularemia	confirmed and probable
Varicella	confirmed and probable
Botulism	confirmed, excluding infant botulism
Measles	confirmed
Meningococcal disease	confirmed
Pertussis	confirmed, with laboratory results

Disease Reporting: Proportion of selected disease reports received by a public health agency within the awardee-required timeframe. Calculated by using EpiTrax fields:

(Lab Test Date or Date Diagnosed – Presumptive) – (Date Reported to Public Health) ≤ KDHE-required disease reporting timeframe

Disease Control: Proportion of reports of selected disease for which initial control measures were initiated within an appropriate timeframe. Calculated by using EpiTrax fields:

(Date LHD Investigation Started) – (Date Reported to Public Health) ≤ CDC-required timeframe

Disease Reporting

Disease	KDHE Required Timeframe	Received Statewide	Statewide Received On Time	%	% Change from Previous Month
Hepatitis A	7 days	1	1	100	-
Salmonellosis	7 days	151	149	99	-
E. coli, STEC	7 days	20	20	100	-
Shigellosis	7 days	13	13	100	-
Tularemia	7 days	5	5	100	-
Varicella	7 days	55	50	91	-3
Botulism	4 hours*	-	-	-	-
Measles	4 hours*	9	8	89	-
Meningococcal disease	4 hours*	-	-	-	-
Pertussis	4 hours*	43	34	79	-13

**Because EpiTrax does not capture time reported to public health, KDHE is allowed to "consider cases as immediately reported if the selected case event date and date of first report to a health department occur on the same date."*

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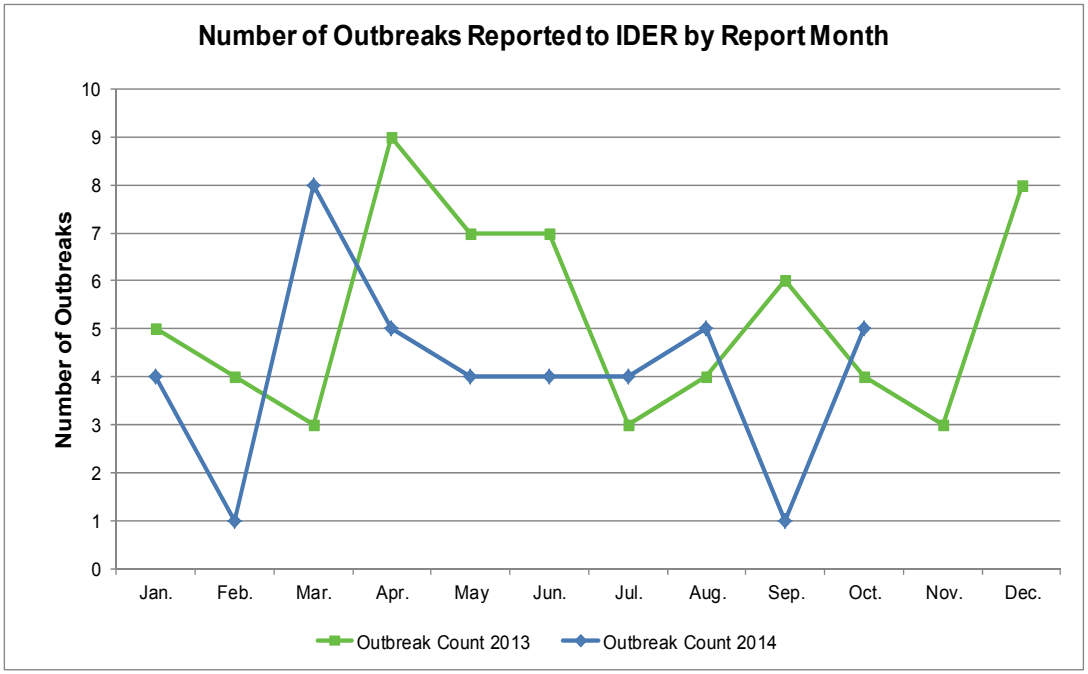
Disease Control

Disease	CDC Required Timeframe	Received Statewide	Statewide Investigated On Time	%	% Change from Previous Month
Hepatitis A	7 days	1	1	100	-
Salmonellosis	3 days	151	127	84	+1
E. coli, STEC	3 days	20	19	95	-5
Shigellosis	3 days*	13	11	85	+15
Tularemia	2 days	5	4	80	-20
Varicella	1 day*	55	44	80	+3
Botulism	1 day	-	-	-	-
Measles	1 day	9	9	100	-
Meningococcal disease	1 day	-	-	-	-
Pertussis	1 day*	43	33	77	+17

**Collecting data for these diseases is optional. KDHE has defined these timeframes, not CDC.*

Monthly Outbreak Summaries

Date Reported	Facility Type	Transmission	Disease	County
10/7/2014	Private Home	Person-to-Person	Norovirus	Johnson
10/17/2014	Community-Wide	Person-to-Person Indeterminate / Other	Pertussis	Marion
10/21/2014	Unknown	Unknown	Shiga toxin-producing *Escherichia coli* (STEC)	Riley
10/22/2014	Hotel or Motel	Water	Legionellosis	Seward
10/27/2014	School or College	Person-to-Person	Varicella (Chickenpox)	Reno



EPITRAX DATA QUALITY INDICATORS

BEPHI has implemented a set of monthly quality indicators and performance measures to encourage data quality improvement in EpiTrax and timeliness of investigations. A table of the previous month's statewide indicators and performance measures will be included in this newsletter each month. In the next several months a separate breakdown of data completeness will be provided directly to the individual local health departments. The first column is the EpiTrax field, the second column represents the number of cases with data in the field, and the third column (percent completed) represents the frequency of completion of the data field in EpiTrax. For questions about this data, please contact Sheri Tubach at (785) 296-6215 or email at stubach@kdheks.gov.

October 2014	State's Total Number of Cases* = 218	
EpiTrax Indicators		
	Number of Cases with Field Completed	Percent Completed
Address City	213	97.7
Address County	218	100.0
Address Zip	212	97.3
Date of Birth	217	99.5
Died	184	84.4
Ethnicity†	183	83.9
Hospitalized	183	83.9
Occupation	88	40.4
Onset Date	170	78.0
Pregnancy††	58	51.3
Race †	195	89.5
Sex †	218	100.0
Date LHD investigation started	211	96.8
Date LHD investigation Completed	190	87.2
Performance Measures		
	Number of Cases	Percent of Cases
Cases accepted by LHDs for case investigation within three days of report to public health	152	69.7
Cases that had investigations completed by LHDs within 14 days of report to public health	158	72.5

*Calculations do not include Hepatitis B - chronic, Hepatitis C – past or present, or Rabies.
** Out-of-state, discarded, deleted or those deemed to be not a case are not included in this calculation.
† Unknown considered incomplete.
†† Pregnancy completeness calculated on females only.

Vaccine-Preventable Disease Surveillance Indicators

By Anne Straily, DVM, MPH

The completeness and quality of specific surveillance indicators for vaccine-preventable diseases (VPDs) reported to the Kansas Department of Health and Environment (KDHE) from October 1 to October 31, 2014 can be found in the table below. The percentages in bold represent the indicators that have less than 90% completion. The case counts presented in this report are preliminary and are subject to change.

Keep up the good work! The indicators for date of birth, gender, and race were all more than 90% completed for *Haemophilus influenzae*, pertussis, *Streptococcus pneumoniae*, and varicella. The indicator for ethnicity was completed for more than 90% of pertussis, *Streptococcus pneumoniae*, and varicella cases. The indicator "Hospitalized" was completed for more than 90% of reported *Haemophilus influenzae* and pertussis cases.

Still room for improvement… The indicators for date of disease onset was completed for only 67% of *Haemophilus influenzae* cases, 88% of pertussis cases, 75% of *Streptococcus pneumoniae* cases, and only 63% of reported varicella cases. Vaccination status was reported for only 67% of *Haemophilus influenzae* cases, 86% of pertussis cases, 75% of *Streptococcus pneumoniae* cases, and 70% of varicella cases. Only 40% of reported varicella cases had the indicator for transmission setting completed. Eighty-three percent of *Streptococcus pneumoniae* and varicella investigations were completed within 14 days. Only 67% of investigations for *Haemophilus influenzae* cases and 56% of pertussis cases were completed within 14 days. Less than or equal to75% of cases for all diseases were accepted within three days. Only 58% of pertussis cases and 32% of varicella cases had completed symptom profiles.

Please continue to focus on completing these fields in EpiTrax for all VPDs. The goal is to reach 90% or higher completion on all indicators. For questions regarding this data, please contact Anne Straily at (785) 296-5588 or astraily@kdheks.gov.

VPD Indicators Reported from October 1 to October 31, 2014 in Kansas

Indicators	*Haemophilus influenzae,* invasive	Pertussis	*Streptococcus pneumoniae,* invasive	Varicella
Number of reported cases	3	58	12	64
% of cases with date of birth	100%	91%	100%	100%
% of cases with gender	100%	100%	100%	100%
% of cases with race	100%	98%	100%	100%
% of cases with ethnicity	**67%**	96%	92%	95%
% of cases with onset date‡	**67%**	**88%**	**75%**	**63%**
% of cases with hospitalized noted	100%	93%	**83%**	**76%**
% of cases with died noted	**67%**	93%	**67%**	**79%**
% of cases with vaccination status*	**67%**	**86%**	**75%§**	**70%**
% of cases with transmission setting¶	N/A**	**84%**	N/A**	**40%**
% of investigations completed by local health departments within 14 days§§	**67%**	**58%**	**83%**	**83%**
% of cases accepted within 3 days of report to LHD¶¶	**67%**	**74%**	**75%**	**72%**
Median # of days from report to case acceptance (range)¶¶	3 (0-6)	0.5 (0-16)	0 (0-7)	0 (0-24)
% of cases with completed symptom profiles	N/A**	**56%**	N/A**	**32%**

‡Data is pulled from onset date field within the clinical tab, not investigation tab.
*Unknown is considered a valid response if patient is older than 18 years.
§Indicator is considered complete if either polysaccharide or conjugate pneumococcal vaccine history is documented.
¶Unknown is considered a valid response for this indicator.
**Indicator field is not included in supplemental disease form. *S. pneumoniae* and *H. influenza* do not have clinical case definitions.
§§Status is calculated based on when local health department completes investigation.
¶¶Time is from public health report date to when local health department accepts case.

Reported Disease Counts - October 2014

Disease	Not Available	Confirmed	Not a Case	Probable	Suspect	Unknown	Grand Total	3 Year Avg. 2011-2013
	Count	Count	Count	Count	Count	Count	Count	
Anaplasma phagocytophilum	0	0	1	0	0	0	**1**	**1**
Babesiosis	0	0	1	0	0	0	**1**	**1**
Brucellosis	1	0	0	0	0	0	**1**	**1**
Campylobacteriosis	32	19	0	1	5	0	**57**	**61**
Carbapenem-resistant Enterobacteriaceae	0	0	0	0	0	2	**2**	**0**
Chikungunya Fever	0	2	0	1	1	0	**4**	**0**
Cryptosporidiosis	1	3	0	1	0	0	**5**	**13**
Dengue	0	0	1	0	1	0	**2**	**0**
Ebola Active Monitoring	3	0	0	0	0	0	**3**	**0**
Ehrlichiosis, *Ehrlichia chaffeensis*	2	1	1	1	0	0	**5**	**6**
Giardiasis	5	6	0	0	0	0	**11**	**15**
HUS - Hemolytic Uremic Syndrome	1	0	0	0	0	0	**1**	**1**
Haemophilus influenzae, invasive	2	1	0	0	0	0	**3**	**3**
Hepatitis A	0	1	0	1	1	0	**3**	**32**
Hepatitis B virus infection, chronic	13	0	37	19	0	0	**69**	**48**
Hepatitis B, acute	0	0	3	0	0	0	**3**	**6**
Hepatitis C virus, past or present	119	41	59	1	5	0	**225**	**174**
Hepatitis C, acute	2	1	0	0	0	0	**3**	**1**
Legionellosis	4	0	0	0	0	0	**4**	**2**
Leptospirosis	0	0	1	0	0	0	**1**	**0**
Listeriosis	0	2	2	0	0	0	**4**	**2**
Lyme Disease (*Borrelia burgdorferi*)	7	0	5	0	0	0	**12**	**32**
Meningitis, Bacterial Other	2	0	0	0	1	0	**3**	**2**
Mumps	0	0	3	0	0	0	**3**	**4**
Non-Reportable Condition	0	0	1	0	0	0	**1**	**1**
Norovirus	1	0	0	0	0	0	**1**	**1**
Pertussis	48	0	3	2	4	0	**57**	**115**
Rabies, animal	4	2	2	1	2	0	**11**	**9**
Rhinovirus/Enterovirus	2	5	1	0	0	0	**8**	**0**
Rubella	0	0	6	0	0	0	**6**	**2**
Salmonellosis	4	46	0	0	1	0	**51**	**42**
Shiga toxin-producing *E-coli* (STEC)	2	8	2	0	5	0	**17**	**16**
Shigellosis	2	1	0	0	1	0	**4**	**8**
Spotted Fever Rickettsiosis (RMSF)	8	0	8	2	0	0	**18**	**25**
Streptococcal disease, invasive, Group A	0	2	0	0	0	0	**2**	**2**
Streptococcus pneumoniae, invasive	1	10	1	0	0	0	**12**	**12**
Transmissible Spongioform Enceph	1	0	0	0	0	0	**1**	**1**
Tularemia (*Francisella tularensis*)	3	0	0	0	0	0	**3**	**2**
Varicella (Chickenpox)	17	5	24	15	0	0	**61**	**47**
Viral hemorrhagic fever	0	0	1	0	0	0	**1**	**0**
West Nile virus neuroinvasive	2	0	1	1	1	0	**5**	**5**
West Nile virus non-neuroinvasive	14	0	16	7	2	0	**39**	**30**
Yersiniosis	1	0	0	0	0	0	**1**	**0**
Grand Total	**304**	**156**	**180**	**53**	**30**	**2**	**725**	**723**