



# Report on Communicable Diseases/Public Health Preparedness for McLennan County

2010 Statistics, 2nd and 3rd Quarters 2011

July 2011

## WACO-MCLENNAN COUNTY PUBLIC HEALTH DISTRICT

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### 2010 Notifiable Conditions Statistic

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2010 (calendar year) was a busy year for WMCPHD. 396 notifiable conditions were reported in McLennan County, compared to 296 conditions reported in 2009 (Table 1). The higher number of reports in 2010 is mainly attributed to increased number of Shigella cases in the county.

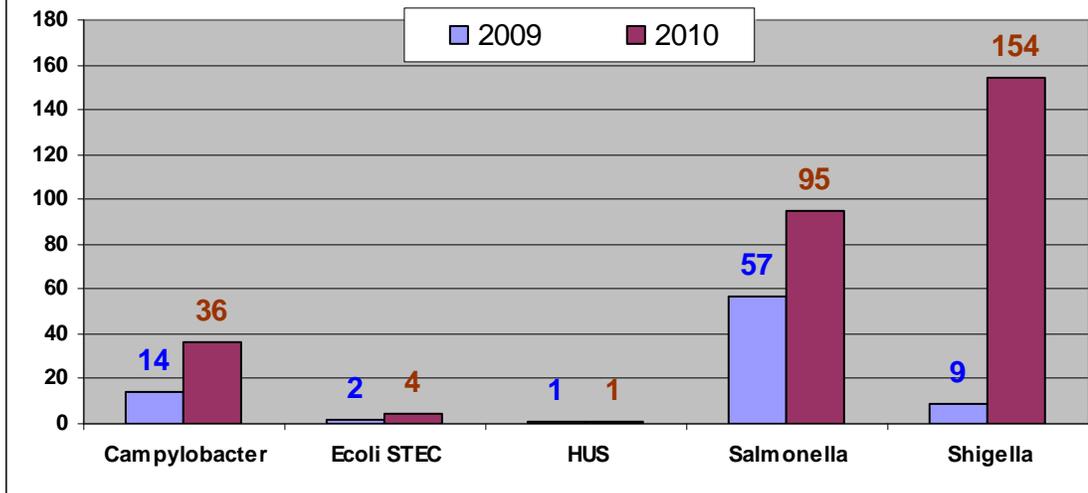
In the beginning 2010 the Health District (WMCPHD) was challenged by a Salmonella Montevideo outbreak. The outbreak brought about the involvement of Department of State Services (DSHS) Region 7. The investigation identified a local food establishment as the source of the incident. Upon conclusion of the incident the Health District conducted food handling and disease specific classes for restaurant staff. In May 2010 health district investigated a probable norovirus outbreak in a nursing home setting.

Overall, higher number of enteric diseases were reported in 2010 (290) compared to 2009 (83). (Figure 1).

Table 1: Conditions	2010	2009
Aseptic (viral) meningitis	4	31
Brucellosis	1	
Campylobacteriosis	36	14
Creutzfeldt-Jakob Disease	1	2
Cryptosporidiosis	3	2
Cysticercosis	1	
Escherichia coli, Shiga toxin-producing (STEC)	4	2
Group A Streptococcus, invasive	2	2
Group B Streptococcus, invasive	2	2
Hemolytic uremic synd, postdiarrheal	1	1
Hepatitis A, acute	1	
Hepatitis B Viral Infection, Perinatal		1
Hepatitis B virus infection, Chronic	10	13
Hepatitis B, acute	6	3
Influenza, human isolates		4
Influenza-associated pediatric mortality		2
Legionellosis	2	
Lyme disease	2	3
Mumps		3
Novel Influenza A Virus Infections		6
Pertussis	3	9
Q fever	1	
Q fever, Acute	1	
Rabies, animal	13	10
Rabies, animal, human exposure	1	11
Salmonellosis	95	57
Shigellosis	154	9
Strep, other, invasive, beta-hem (non-A nonB)	1	
Streptococcus Pneumoniae, invasive disease (IPD)	5	4
Tuberculosis	6	7
Vancomycin-Resistant Enterococcus	4	
Varicella (Chickenpox)	36	71
<b>TOTAL</b>	<b>396</b>	<b>269</b>



**Figure 1: Enteric Diseases; 2009 Vs. 2010**



**Figure 1:**

Total Enteric Diseases reported in 2009 = 83

Total Enteric Diseases reported in 2010 = 290

**Quarterly Events and Statistics : December 2010 to February 2011, March 2011 to May 2011**

**PHEP 2nd Quarter : December 2010 through February 2011:**

The Waco-McLennan County Public Health District (WMCPHD) received 25 reports of communicable disease December through February 2010-2011.

WMCPHD investigated 3 Nursing Home Outbreaks this quarter: 2 with GI illness (one confirmed Norovirus other probable Norovirus); 1 with Flu Like illness. Conducted 1 Pertussis investigation involving a child care facility . 3 Controlled Substance Overdoses reported to Central TX Poison Center this quarter.

**PHEP 3rd Quarter : March 2011 through May 2011:**

56 reports of communicable disease were reported in next quarter (March – May 2011). Counts of reported diseases for both time periods are listed in the Table 2.

**VPDs: 2nd Triannual Period:**

According to 2nd WMCPHD Vaccine Preventable Diseases Surveillance section of triannual report (01/01/2011—04/30/2011); 4 suspected cases of Pertussis were reported to the health district; 2 confirmed, 1 probable and 1 was not a case. 3 cases each of Acute Hepatitis B and Varicella were reported. 5 cases of invasive Streptococcus Pneumoniae were reported.

Table 2: Conditions	Quarter : Dec. 2010—Feb. 2011 (2nd Qtr)	Quarter: March 2011—May 2011(3rd Qtr)
Aseptic (viral) meningitis		15
Campylobacteriosis	2	8
Group A Streptococcus, inva-	1	
Group B Streptococcus, inva-	1	
Hepatitis B virus infection,		2
Hepatitis B, acute	2	4
Pertussis	2	3
Rabies, animal		5
Rabies, animal, human expo-		1
Salmonellosis	6	9
Shigellosis	4	2
Streptococcus Pneumoniae	4	1
Tuberculosis	1	
Varicella (Chickenpox)	2	6
<b>TOTAL</b>	<b>25</b>	<b>56</b>



### Nuclear Preparedness Special Issue

Disaster Medicine and Public Health Preparedness Special Issue on Nuclear Preparedness and Japan-related articles now available for free at [dmphp.org](http://dmphp.org).

On March 14, Disaster Medicine and Public Health Preparedness published a special issue devoted to Nuclear Preparedness. In light of recent events in Japan, the entire issue, as well as articles from previous issues related to the crisis, have been made open access and can be viewed at the journal's website: <http://www.dmphp.org>.

Nuclear Preparedness brings together the best available science and evidence to address the daunting challenges of a nuclear crisis. The editors and authors also provide practical recommendations and guidance that create a rational framework for grappling with almost inconceivable events. Articles include a survey of state health departments that shows substantial gaps in preparedness for response to a major radiation emergency event; another suggests a new triage system for the aftermath of a nuclear detonation, when medical personnel and material resources would be very limited.

Nuclear Preparedness has been featured in the national media, including MSNBC and USA Today. About Disaster Medicine and Public Health Preparedness

Disaster Medicine and Public Health Preparedness was created to promote public health preparedness and the science of disaster medicine. It is the first comprehensive, peer-reviewed publication emphasizing public health preparedness and disaster response. The journal is published by the American Medical Association and an online version can be found on the web at [www.dmphp.org](http://www.dmphp.org). For information about individual subscriptions, contact the AMA Unified Service Center at (800) 262-2350. Institutions wishing to order may contact [journalsales@ama-assn.org](mailto:journalsales@ama-assn.org).

### Strategic National Stockpile (SNS) Trainings (Online CEC)

The Training Finder Real-time Affiliate Integrated Network or TRAIN offers free (Continue Education Credit) training courses *available online* <https://tx.train.org> for learning more about the Strategic National Stockpile (SNS).

Course offerings include:

- A Basic Introduction for Hospital Preparedness Staff (#1013282)
- A Basic Introduction for SNS Medical Workers (#1027222)
- A basic Introduction for SNS Planners and Coordinators (#1013430)
- A Basic Introduction for SNS Workers (#1015200)
- A Basic Introduction for the Distribution Driver (#1013262)
- Texas CHEMPACK Training (#1008723).
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The SNS was established to rapidly deliver critical medical assets in the event of a terrorism attack or a large-scale natural disaster in the U.S. Since many communities do not have the resources to store or stockpile such assets, the SNS program provides a national stockpile of pharmaceuticals and medical supplies that would be needed in a disaster. The idea behind the SNS is that a national emergency would cause communities and states to quickly deplete local stocks of medical materials. The SNS is designed to supplement and re-supply state and local public health agencies in the event of a national emergency anywhere and at anytime within the U.S. or its territories. SNS supplies include antibiotics, chemical antidotes, antitoxins, antivirals, life support medication, intravenous administration supplies, airway maintenance supplies, and medical and surgical material. Additional information about preparing for a disaster can be found at <http://www.texasprepares.org/>

## Bio-surveillance in McLennan County



The Waco-McLennan Public Health District, in collaboration with Texas Association of Local Health Officials (TALHO) has recently established the electronic surveillance systems RODS and ESSENCE in the 2 hospitals of McLennan county & Family Health Center.

**The Real-time Outbreak and Disease Surveillance system (RODS)** is an electronic public health surveillance system deployed since 1999 in Pennsylvania. RODS collects healthcare registration data in real time from participating hospitals via a standard called Health Level 7 (HL7). It also serves as the user interface for national over-the-counter medication sales surveillance data collected through the NRDM and groups the individual medication sales data spatially by zip code according to store location, and categorically into one of 18 over the counter categories.

**ESSENCE** is Electronic Surveillance system for the Early Notification of Community-based Epidemics (Syndromic Surveillance system) and is used to take anonymized clinical information and provide an epidemiologically useful set of tools for detecting public health anomalies. The system primarily focuses on CDC mandated nationally notifiable conditions and groups the acquired data into sets of symptoms that are use to define syndrome and sub-syndromes.

RODS and ESSENCE will help health district with:

- Early detection of diseases and outbreaks
- Analyzing time-sensitive data in McLennan County
- Situational awareness: to obtain size, location, and spread of imminent health events
- To track ongoing health events to assess impact in terms of time, geography, and demography

More information: <https://www.rods.pitt.edu/site/>

<http://www.cdc.gov/mmwr/preview/mmwrhtml/su5301a30.htm>

## Flu Activity Texas (DSHS)

During week 27 in Texas:

- One specimen tested by NREVSS laboratories in Texas was positive for influenza B by rapid test.
- One specimen tested by a public health laboratory in Texas was positive for 2009 influenza A (H1N1) by PCR.
- The percentage of visits for influenza-like illness (ILI) as reported by ILINet providers in Texas was below the state and HHS regional baselines.
- No influenza-associated pediatric deaths were reported.
- No influenza or ILI outbreaks were reported.
- All Health Service Regions (HSRs) reported. HSRs 1 and 9/10 reported a decreased level of flu activity compared to week 26.
- WMCPHD received 1 ILI report during week ending 07/16/2011

## Rabies Updates (Animal Cases) HSR 7

There were 268 laboratory-confirmed animal rabies cases reported from the 30- county area of Health Service Region 7 (HSR7) during the first six months of 2011. Region 7 staff investigated an additional 87 non-negative (decomposed, destroyed, and unsatisfactory) rabies test result incidents.

Rabies was confirmed in HSR7 in 146 skunks, 88 bats, 5 cats, 2 dogs, and 27 other animals (11 foxes, 11 raccoons, two goats, one deer, one donkey and a horse). Counties with laboratory-confirmed rabies cases include: Bastrop (13), Bell (5), Bosque (2), Brazos (10), Burleson (3), Burnet (40), Caldwell (5), Coryell (3), Falls (1), Fayette (5), Freestone (1), Grimes (1), Hamilton (6), Hays (7), Lampasas (1), Lee (2), Llano (15), Madison (1), **McLennan (2)**, Milam (4), Robertson (7), San Saba (5), Travis (36), Washington (9), and Williamson (84).

## Perinatal Hepatitis B Prevention Program

Texas law requires all pregnant women be screened for hepatitis B at first prenatal visit and at the time of delivery for each pregnancy (Texas Administrative Code Title 25, Part 1 Chapter 97, subchapter F, §97.135 )

### Role of Health Care Providers :

- Mandatory reporting of all positive HBsAg mothers to WMCPHD (according to Texas Administrative Code Title 25, Part 1 Chapter 97, subchapter A, §97.3)
- Screen all pregnant women for HBsAg at the first prenatal visit and at delivery
- Report all HBsAg-positive women to your local health department or to the Waco-McLennan County Health District (WMCPHD).

Reporting forms available at: [www.mclennanpublichealth.org](http://www.mclennanpublichealth.org)

- The Waco-McLennan County Public Health District offers the following free and confidential services to women who are reported as HbsAG positive:
- Testing of all household and sexual contacts
- Hepatitis B vaccination for all contacts who test negative for HBV
- Case management services for the mother and infant for up to the first 2 years of life
- Education for the pregnant woman and her family on Hepatitis B
- Hepatitis B vaccination and serology testing of the infant at 12-15 months if the client chooses not to use a private provider.

We also offer training for Physicians, Nurses or other staff on Perinatal Hepatitis B. Please feel free to contact us at 254- 750-5493 if you have any questions.

## COMING EVENT : HIP HOP 2 HEALTH BACK TO SCHOOL HEALTH FAIR

(VACCINES, HEALTH SCREENINGS, SCHOOL SUPPLIES)

FREE ADMISSION AT WACO CONVENTION CENTER

AUGUST 13, 2011, 9 AM TO 1 PM (Questions? 254-750-5460)

## 24/7 Disease Reporting

The Waco-McLennan County Public Health District has a 24-hour a day/ 7 days a week number that can be utilized to report any cases of disease.

**The 24/7 disease reporting number is**

**(254) 750-5411.**

On a daily basis the epidemiology department reviews, investigates, and reports all cases of communicable disease recognized as Notifiable Diseases in Texas. This allows for monitoring of disease trends and detection of outbreaks.

A list of reportable diseases or conditions and forms for reporting has been included. These forms are also available at health district web link :

[www.mclennanpublichealth.org](http://www.mclennanpublichealth.org)

If you have any questions, you may contact Hammad Akram, MD, MPH, Epidemiologist at (254) 750-5493. **Reports may also be faxed to (254) 750-5405.**

