Manitoba Monthly Surveillance Unit Report

Reported up to January 31, 2011

Highlights:

1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 57% of all non-STBBI related communicable diseases reported to Manitoba Health during January 2011.

2. Sexually Transmitted & Blood-Borne Infections (STBBI)

There were 619 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2011:

- 529 reported cases of chlamydia (CT) only
- 44 reported cases of gonorrhoea (GC) only
- 42 reported co-infections of CT and GC and
- 4 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 46% of all reported chlamydia cases in the province.

Syphilis cases include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In January 2011, there were no cases of Hepatitis B virus (HBV), 26 cases of Hepatitis C virus (HCV) and 10 cases of HIV newly reported in Manitoba.

3. Other Communicable Diseases

The number of reported cases in January 2011 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

Shigellosis: 6 positive lab-confirmed cases reported; less than 6 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during December ('05-'09), January ('06-'10), and February ('06-'10).

Explanatory Notes:

General:

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date as symptom onset date is frequently not recorded. Some discrepancy of numbers may be based on reporting delays.

The observed numbers of cases are compared to the statistically expected range for each reportable communicable disease. This involves comparing the current month's case counts to the average case counts for the same month, one month subsequent and one month prior for the previous five years. These same months over the five years are used to determine the expected range of cases using the statistical calculation of standard deviation. Using this specific monthly pattern allows for adjustment within the statistics for both seasonality and cyclical disease patterns.

The year-to-date case counts are based on the calendar year.

The disease data reported in the monthly report has not been analyzed for severity or associated deaths at this time.

Disease specific information:

Methicillin-resistant *Staphylococcus aureus* (MRSA) positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals who have no symptoms and are mostly diagnosed during admission screening activities at facilities. If facilities increase their screening activities, it would usually result in a rise in colonized MRSA cases.

A new case of Hepatitis C Virus (HCV) infection is defined as a first positive test for an identifiable individual.

A new case of Human Immunodeficiency Virus (HIV) infection is defined as a positive test with a unique code that has not been previously linked to a positive test result in Manitoba. Positive HIV tests included in this month's statistics include both nominal and non-nominal testing results.

The number of Tuberculosis cases year-to-date may not equal the sum of cases reported for each month of this year. As new test results are received, there may be a change in diagnosis. Occasionally, diagnosis dates are updated, which also contributes to total numbers varying from month to month.

SUMMARY OF COMMUNICABLE DISEASE FOR January 2011 MONTHLY TOTAL YEAR-TO-DATE Ex. ICD9 **DISEASE/INFECTION** 2010 2011 Expected* 2010 2011 Range** 006.9 **AMEBIASIS** 3 4 3 1-7 022 ANTHRAX 127.0 **ASCARIASIS** 0 0-0 005.8 B. CEREUS 0 0-0 320.1 BAC. MENINGITIS - PNEUM 0 0-1 BAC.MENINGITIS-LISTERIA 320.7 1 1 038.0 BETA STREP SEPTICEMIA 11 11 *** BLASTOMYCOSIS 2 116.0 *** 005.1 **BOTULISM** 023 **BRUCELLOSIS** 0 0-1 C. PERFRINGENS 005.2 0 0-1 008.43 CAMPYLOBACTER 16 14 14 7-21 16 14 558.2 **CLOSTRIDIUM DIFFICILE** 74 74 74 74 CREUTZFELD-JACOB DISEASE *** 046.1 007.8 **CRYPTOSPORIDIOSIS** 2 0-5 **DENGUE FEVER** 1 0 1 061.0 0-1 DENGUE HEMORRHAGIC FEVER 065.4 0 0-0 V02.4 DIPH.CARRIERS 0 0-2 1 1 032 **DIPHTHERIA CASES** 0 0-1 DIPHYLLOBOTHRIUM SPP 123.4 0 0-1 0.800 E. COLI-VEROTOXIGENIC 4 1 3 0-7 4 1 054.3 **ENCEPHALITIS** 0 0-1 005.9 FOOD POISONING OTHER 0 0-1 007.1 GIARDIA LAMBLIA 12 8 2-14 12 2 2 320.0 H.INFLUENZAE (CSF) 0 0-1 H.INFLUENZAE (OTHER STERILE) 0-1 041.5 0 041.59 HAEM. INFLUENZAE (non-B) HANTA VIRUS 0 0-0 480.8 HEMOLYTIC UREMIC SYNDROME 283.11 0 0-0 HEPATITIS A 1 070.1 1 0-3 1 070.3 HEPATITIS B 0 0-1 17 HEPATITIS C 17 26 26 070.51 27 15-39 487.1A INFLUENZA A**** 83 83 487.1B INFLUENZA B 482.83 LEGIONELLA 0 0-1 085.9 LEISHMANIASIS 0 0-0 LEPROSY 0 030.9 0-0 LISTERIA MONOCYTOGENES 027.0 0 0-1 LYME DISEASE 088.81 0 0-1 MALARIA 084 1 1 1 0-3 1 1 055.9 **MEASLES** 0 0-0 0 0-1 MENINGOCOCCAL CSF 036.0 MENINGOCOCCAL ARTHROPATHY 036.82 1 1 036.2 MENINGOCOCCEMIA BLOOD 0 0-1 228 253 177 87-267 228 253 B95.6 MRSA 072.9 **MUMPS** 0 0-1 N.MENINGITIDIS OTHER 036.89 0 0-1

NECROTIZING FASCIITIS

NECROTIZING MYOSITIS

OTHER ENCEPHALITIS

PNEUM. SEPTICEMIA

PARAPERTUSSIS

PERTUSSIS

PSITTACOSIS

728.86

729.1 323.9

033.1

038.2

073.9

14

17

0-4

0-0

0-4

1-17

1

0

1

9

14

17

^{*} Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years.

^{**} Mean +/- 2 standard deviations of the mean.

^{***} Data collected for less than 5 years.

^{****} Excludes Wave 1 and 2 cases reported during the 2009/2010 Influenza A H1N1 pandemic. There were no cases of pandemic H1N1 in January 2011.

SUMMARY OF COMMUNICABLE DISEASE FOR January 2011 **MONTHLY TOTAL** YEAR-TO-DATE Ex. ICD9 2010 2011 2010 **DISEASE/INFECTION** Expected* 2011 Range** Q FEVER 083.0 0 0-1 082.0 RICKETTSIA RICKETTSII 056.9 RUBELLA 1 0 0-1 1 RUBELLA CONGENTIAL 771.0 0 0-0 041.2 S.PNEUM.OTHER 0 0-1 1 1 SALMONELLA 30 16 19 30 16 003.0 6-32 079.82 SARS (CORONAVIRUS) 0 SCHISTOSOMIASIS 0-1 120 SEVERE RESPIRATORY ILLNESS 079.99 004 SHIGELLOSIS 2 6 2 0-5 2 6 **SMALLPOX** 050.9 005.0 STAPH FOOD POISON 0 0-0 STAPH TOXIC SHOCK 785.5 STREP PNEUMONIA - PR 0 0-0 481.9 041.1 STREP PYOGENES - OTHER 9 6 9 6 711.0 STREP.PNEUM.ARTHRITIS 0 0-0 STREPT GLOMERULONEPHRITIS 580.0 0 0-0 040.89 STREPT TOXIC SHOCK 0 0-1 STREPTOCOCCUS PNEUMONIAE 481 0 0-1 STRONGYLOIDES 3 2 3 2 127.2 1 0-5 037 **TETANUS** 0 0-0 130.9 TOXOPLASMOSIS 1 0 0-1 1 TRICHINOSIS 124 0 0-0 086 TRYPANOSOMA CRUZI 0 0-0 013 TUBERCULOSIS - NON-RESP. 2 1 0-4 2 1 TUBERCULOSIS - PRIM. 0-3 010 011 TUBERCULOSIS - RESP 3 9 6 0-12 3 9 021.9 TULAREMIA 0 0-0 002.0 **TYPHOID** 0 0-1 **TYPHUS** 0 081.9 0-0 B96.8 VANCOMYCIN R. ENTEROCOCCI 38 38 *** 005.4 VIBRIO PARAHAEMOLYTICUS

VIRAL HEP. OTHER

WNV NEUROLOGICAL

W. EQUINE ENCEPHALITIS

YERSINIA ENTEROCOLITICA

070.59 B95.7

062.1

066.41

437

570

0-0

0-0

0-3

437

570

0

0

1

^{*} Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years.

^{**} Mean +/- 2 standard deviations of the mean.

^{***} Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JANUARY 2011

		_	<1	1	-4	5-	-9	10	-14	15	-19	20	-24	25	-29	30	-39	40	-49	50	-59	60	-69	70	-79	8	0+	Missing	
ICD9	Disease Name	F	М	F	М	F	M	F	М	F	M	F	М	F	М	F	М	F	M	F	М	F	M	F	М	F	М	Age/Gender	Total
320.7	BAC. MENINGITIS- LISTERIA																							1					1
038.0	BETA STREP SEPTICEMIA		1				1				1					1				2			1	1	1		2		11
116.0	BLASTOMYCOSIS																	1								1			2
008.43	CAMPYLOBACTER			3	2					1		1	1			1	2	1	1		1								14
558.2	CLOSTRIDIUM DIFFICILE							1						2		2	3	9	3	6	2	12	4	4		15	11		74
061.0	DENGUE FEVER																		1										1
V02.4	DIPH. CARRIERS												1																1
0.800	E. COLI 0157														1														1
007.1	GIARDIA LAMBLIA			1											1														2
320.0	H. INFLUENZAE (CSF)		1																										1
070.51	HEPATITIS C										1			1		1	3	1	6	1	5	3			1			3	26
487.1A	INFLUENZA A		6	2	1	1	1	3	4		1	1				3	4	1	4	3	5	1	2	8	6	18	8		83
084	MALARIA																			1									1
B95.6	MRSA	6	7	11	7	10	4	5	1	12	9	10	7	7	8	25	10	14	10	9	17	8	8	9	14	17	8		253
033.0	PERTUSSIS			1																									1
038.2	PNEUM. SEPTICEMIA		1		1								1			2		1	1	1	1		2	2	1	1	2		17
003.0	SALMONELLA			1	2	1	1		1			2		1			1	1	1			2				2			16
004	SHIGELLOSIS			1	1	1	1		1									1											6
041.1	STREP PYOGENES - OTHER ST									3			1				1						1						6
041.2	STREP.PNEUM.OTHER																			1									1
127.2	STRONGYLOIDIASIS												1				1												2
013	TUBERCULOSIS - NON-RESP.															1													1
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP									1			1			1	1		1		1	1	2						9
B96.8	VANCOMYCIN RES. ENTER.													1			2	2	2	4		3	5	4	4	6	5		38
008.44	YERSINIA ENTEROCOLITICA															1				1									2
		6	16	20	14	13	8	9	7	17	12	14	13	12	10	38	28	32	30	29	32	30	25	29	27	60	36	3	570

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JANUARY 2011

ICD9	Disease/Infection	Winnipeg Brandon		N. Ea	N. Eastman		stman	Inte	rlake	Cer	ntral	Assiniboine		Park	kland	Nor	man	an Burntwood		Churchill	00P**	Missing	TOTAL
Case Re	ferred to:*			F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
320.7	BAC. MENINGITIS- LISTERIA	1																					1
038.0	BETA STREP SEPTICEMIA	9							1									1					11
116.0	BLASTOMYCOSIS	2																					2
008.43	CAMPYLOBACTER	7	2				1				4												14
558.2	CLOSTRIDIUM DIFFICILE	49	4		1		4		3		5		5					2	1				74
061.0	DENGUE FEVER	1																					1
V02.4	DIPH. CARRIERS																	1					1
0.800	E. COLI 0157										1												1
007.1	GIARDIA LAMBLIA	1									1												2
320.0	H. INFLUENZAE (CSF)	1																					1
070.51	HEPATITIS C	18					1	1	1		1				3		1						26
487.1A	INFLUENZA A	24	5	4	2		6		3		15		19	1	3				1				83
084	MALARIA	1																					1
B95.6	MRSA	102	1		2		4	2	5		6	1	4	4	1	4	5	106	5			1	253
033.0	PERTUSSIS								1														1
038.2	PNEUM. SEPTICEMIA	10					1				2		1					3					17
003.0	SALMONELLA	9			1				1		2		1			1		1					16
004	SHIGELLOSIS	2									1						1	1	1				6
041.1	STREP PYOGENES - OTHER ST	3									1							2					6
041.2	STREP.PNEUM.OTHER	1																					1
127.2	STRONGYLOIDIASIS	2																					2
013	TUBERCULOSIS - NON-RESP.			1																			1
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	7	1															1					9
B96.8	VANCOMYCIN RES. ENTER.	27	1		1				3		3						2	1					38
008.44	YERSINIA ENTEROCOLITICA	1					1																2
		278	14	5	7		18	3	18		42	1	30	5	7	5	9	119	8			1	570

^{*} F=Federal Jurisdiction (First Nations and Inuit Health); P=Provincial Jurisdiction

^{**} OOP=Out of Province

STBBI Infection Summary Report - January 2011

	MONTHL	Y TOTAL	YEAR-TO-DATE					
DISEASE/INFECTION	2010	2011	2010	2011				
All Chlamydia Infections	521	571	521	571				
All Gonorrhea Infections (including PRNG)	71	86	71	86				
All Syphilis Infections*	3	4	3	4				
Gonorrhea & Chlamydia Co-infections	30	42	30	42				
HIV	9	10	9	10				

Total Number of STBBI Cases by Age and Gender - January 2011

-								1				1				T					1		1				1	T
	<1		1-4		5-9		10-1	4	15-19		20-24		25-29		30-39		40-49		50-59		60-	69	70	-79	80+		Missing	
Disease Name	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	age/gender	TOTAL
Chlamydia Only Cases							4		127	43	118	63	52	38	34	25	8	12	3	1		1						529
Gonorrhea Only Cases									5	2	7	5	3	3	3	5	3	4	1	2				1				44
Syphilis Only Cases																1		1			1		1					4
GC and CT Cases							1		8	3	6	4	5	4	4	3	1	2			1							42
TOTAL							5		140	48	131	72	60	45	41	34	12	19	4	3	2	1	1	1				619
HIV												1				1		4		2	1	1						10

Regional STBBI Distribution - January 2011

Disease/Infection	Winnipeg	Brandon	N. Eas	N. Eastman		Eastman I		lake	Central	Assi	niboine	Parkland		Norman		Burnt	twood	Churchill	OOP***	Missing	TOTAL
Case Referred to:**			F	Р	F	P	F	Р	F	P	P	F	Р	F	Р	F	P				
All Chlamydia Infections	278	28	17	12		14	12	14	1	7	1 17	4	6	10	26	71	38		6		571
All Gonorrhea Infections	33	4	3	3		2	2	3	1			1	1	5	7	14	6		1		86
All Syphilis Infections	4																				4
GC and CT Infections	10	2	3	1		1		2				1		4	4	10	4				42

Syphilis cases include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.
F=Federal Jurisdiction (First Nations and Inuit Health);
P=Provincial Jurisdiction

^{***} OOP=Out of Province