Manitoba Monthly Surveillance Unit Report

Reported up to February 28, 2011

Highlights:

1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 61% of all non-STBBI related communicable diseases reported to Manitoba Health during February 2011.

The data reveal that there are increased numbers of Vancomycin-resistant Enterococcus (VRE) in 2011 compared to 2010. The increased number of VRE cases in 2011 is attributable to hospital-related VRE outbreaks reported this year.

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

There were 573 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in February 2011:

- 504 reported cases of chlamydia (CT) only
- 31 reported cases of gonorrhoea (GC) only
- 36 reported co-infections of CT and GC and
- 2 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 44% 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 February 2011, there were no cases of Hepatitis B virus (HBV), 15 cases of Hepatitis C virus (HCV) and 5 cases of HIV newly reported in Manitoba.

3. Other Communicable Diseases

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

- Legionellosis: 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Strongyloidiasis: 4 positive lab-confirmed cases reported; less than 4 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during January, February, and March, 2006-2010.

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.

SUMMA	RY OF COMMUNICABLE DISEASE	FOR	February	y 2011			
			MONT	HLY TOTAL		YEAR-T	O-DATE
ICD9	DISEASE/INFECTION	2010	2011	Expected*	Ex. Range**	2010	2011
006.9	AMEBIASIS	6	1	3	1-5	9	1
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM			0	0-1		
320.7	BAC.MENINGITIS-LISTERIA				***		1
038.0	BETA STREP SEPTICEMIA	11	6		***	18	17
116.0	BLASTOMYCOSIS				***		2
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	15	11	15	9-21	31	26
558.2	CLOSTRIDIUM DIFFICILE	77	63		***	151	137
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS	1		2	0-5	1	1
061.0	DENGUE FEVER			0	0-1		1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	4		0	0-2	4	1
032	DIPHTHERIA CASES	2		0	0-1	2	
123.4	DIPHYLLOBOTHRIUM SPP		1	0	0-1		1
0.800	E. COLI-VEROTOXIGENIC	3	4	3	0-6	7	6
054.3	ENCEPHALITIS		† 	0	0-0	-	
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	6	4	9	3-15	18	6
320.0	H.INFLUENZAE (CSF)			0	0-0	10	1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		'
041.59	HAEM. INFLUENZAE (non-B)			U	***		
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1		1	0-3	2	
070.1	HEPATITIS B	1	1	0	0-3		
070.51	HEPATITIS C	23	15	28	15-41	40	41
487.1A	INFLUENZA A	23	23	20	***	40	106
487.1A	INFLUENZA B		23		***		100
482.83	LEGIONELLA		1	0			4
			1	0	0-0		1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1		
088.81	LYME DISEASE	1		0	0-0		
084	MALARIA	1	1	1	0-3	2	2
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	_	
036.82	MENINGOCOCCAL ARTHROPATHY				***	1	
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		
B95.6	MRSA	244	209	173	88-258	472	462
072.9	MUMPS		1	0	0-1		1
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS	2		1	0-3	2	
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	2	1	0-4	1	3
038.2	PNEUM. SEPTICEMIA	14	10	10	3-17	28	26
073.9	PSITTACOSIS			0	0-0		

^{*} 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 February 2011.

February 2011 SUMMARY OF COMMUNICABLE DISEASE FOR

ICD9 083.0 082.0	DISEASE/INFECTION						
		2010	2011	Expected*	Ex. Range**	2010	2011
002.0	Q FEVER			0	0-1		
062.0	RICKETTSIA RICKETTSII				***		
056.9	RUBELLA			0	0-1	1	
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER		1	1	0-3	1	2
003.0	SALMONELLA	26	18	21	9-33	56	37
079.82	SARS (CORONAVIRUS)				***		
120	SCHISTOSOMIASIS			0	0-0		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	1	1	2	0-5	3	7
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER	11	9		***	20	15
711.0	STREP.PNEUM.ARTHRITIS		_	0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		4	1	0-3	3	6
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1	1	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	3	2	2	0-4	5	3
010	TUBERCULOSIS - PRIM.			1	0-5	-	
011	TUBERCULOSIS - RESP	4	9	7	1-13	7	18
021.9	TULAREMIA			0	0-0	-	
002.0	TYPHOID			0	0-1		
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	11	52	1	***	18	90
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER			1	***		1
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL			1	***		
008.44	YERSINIA ENTEROCOLITICA	1	1	1	0-3		4
		467	449			904	1025

Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years. Mean \pm 2 standard deviations of the mean.

Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR FEBRUARY 2011

	ī		_	_		-	-9	40	-14	45	-19	20	-24	25-	20	30-	20	40-	40	50-	50		-69	70	-79	_	٥.		
ICDO	Diagram Nama	F	_	1		_	_	_		15·	_	_		_				40·	_			F		_	_	F	0+ М	Missing Age/Gender	Total
-	Disease Name	r	М	F	M	F	М	F	М	r	М	F	М	F	М	F	М	F	M	F	M	r	M	F	M	F	IVI	Age/Gerider	
006.9	AMEBIASIS													1															1
-	BETA STREP SEPTICEMIA															2			1	1			1			1			6
008.43	CAMPYLOBACTER		1		1			1				1						2	1	2	1		1						11
558.2	CLOSTRIDIUM DIFFICILE							2		1						2	4	2	3	9	4	10	2	7	2	13	2		63
123.4	DIPHYLLOBOTHRIUM																1												1
0.800	E. COLI 0157					1	1											1	1										4
007.1	GIARDIA LAMBLIA			1	1												1	1											4
070.51	HEPATITIS C													1		1	3	1	5	1	2		1						15
487.1A	INFLUENZA A				1		1	1			1	1	1	1				1		1						9	5		23
482.83	LEGIONELLA																			1									1
084	MALARIA																	1											1
B95.6	MRSA	2	4	8	12	8	2	4	4	8	10	10	8	6	7	12	3	13	7	8	11	6	8	2	11	16	19		209
072.9	MUMPS																		1										1
033.0	PERTUSSIS		2																										2
038.2	PNEUM. SEPTICEMIA		1						1										1	1	2				3	1			10
003.0	SALMONELLA			1	1						1		2		1	3		1	1	3		2			1	1			18
004	SHIGELLOSIS														1														1
041.1	STREP PYOGENES - OTHER ST			1									1				1				2	2	1		1				9
041.2	STREP.PNEUM.OTHER																										1		1
127.2	STRONGYLOIDIASIS				2												1					1							4
013	TUBERCULOSIS - NON-RESP.															1			1										2
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP			1	1								1		1	1	1			1	1			1					9
B96.8	VANCOMYCIN RES. ENTER.										1					1		4		4	5	9	6	2	7	5	8		52
008.44	YERSINIA ENTEROCOLITICA														1														1
		2	8	12	19	9	4	8	5	9	13	12	13	9	11	23	15	27	22	32	28	30	20	12	25	46	35		449

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

ICD9	Disease/Infection	Winnipeg	Brandon	N. Ea	stman	S. Ea	stman	Inte	lake	Cer	ntral	Assini	boine	Park	dand	Nor	man	Burn	twood	Churchill	00P**	Missing	TOTAL
Case R	eferred to:*			F	P	F	Р	F	P	F	P	F	P	F	P	F	P	F	P				
006.9	AMEBIASIS	1																					1
038.0	BETA STREP SEPTICEMIA	5													1								6
008.43	CAMPYLOBACTER	3	1				3		2				1						1				11
558.2	CLOSTRIDIUM DIFFICILE	33	7		1		2	1	4		9		4					1	1				63
123.4	DIPHYLLOBOTHRIUM	1																					1
0.800	E. COLI 0157	3									1												4
007.1	GIARDIA LAMBLIA	1							1		1		1										4
070.51	HEPATITIS C	4			1		1				5				1				3				15
487.1A	INFLUENZA A	9	7						1			2	4										23
482.83	LEGIONELLA	1																					1
084	MALARIA	1																					1
B95.6	MRSA	75	5	1	3		3	1	8		6	2	3	2	4	2	8	78	7			1	209
072.9	MUMPS	1																					1
033.0	PERTUSSIS										2												2
038.2	PNEUM. SEPTICEMIA	7									2							1					10
003.0	SALMONELLA	8	1				3		1		1		1		1			2					18
004	SHIGELLOSIS												1										1
041.1	STREP PYOGENES - OTHER ST	3					2		1		1		1		1								9
041.2	STREP.PNEUM.OTHER	1																					1
127.2	STRONGYLOIDIASIS	2							1		1												4
013	TUBERCULOSIS - NON-RESP.	1																1					2
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	4					1											4					9
B96.8	VANCOMYCIN RES. ENTER.	30		1	1		3	1	7		3		1		1		1	1	1	1			52
008.44	YERSINIA ENTEROCOLITICA						1																1
		194	21	2	6		19	3	26		32	4	17	2	9	2	9	88	13	1		1	449

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

^{**} OOP=Out of Province

STBBI Infection Summary Report - February 2011

	MONTHL	Y TOTAL	YEAR-T	O-DATE
DISEASE/INFECTION	2010	2011	2010	2011
All Chlamydia Infections	556	540	1077	1111
All Gonorrhea Infections (including PRNG)	83	67	154	153
All Syphilis Infections*	5	2	8	8
Gonorrhea & Chlamydia Co-infections	42	36	72	78
HIV	9	5	18	15

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

	<1		1-4		5-9		10-14	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	M F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	F	М	age/gender	TOTAL
-																											
Chlamydia Only Cases							7	130	43	94	57	65	31	30	34	4	5		3		1						504
Gonorrhea Only Cases							1	3	2	4	4	4	2	4	2	1	1		3								31
Syphilis Only Cases															2												2
GC and CT Cases							2	10	4	7	2	3	5	2		1											36
TOTAL							10	143	49	105	63	72	38	36	38	6	6		6		1						573
HIV														1	2		1	1									5

Regional STBBI Distribution - February 2011

Disease/Infection	Winnipeg	Brandon	N. Eas	tman	S. Ea	stman	Inte	rlake	Cer	ntral	Assin	iboine	Park	kland	Nor	man	Burn	twood	Churchill	OOP***	Missing	TOTAL
Case Referred to:**			F	Р	F	P	F	Р	F	Р	F	P	F	Р	F	P	F	P				
All Chlamydia Infections	246	19	14	10		8	11	10	2	20)	9	1	9	10	41	90	36		4		540
All Gonorrhea Infections	29	4	2				2									3	21	5		1		67
All Syphilis Infections	1	1																				2
GC and CT Infections	12						1									2	18	3				36

- 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