

Manitoba Monthly Communicable Disease Report

Reported up to May 31, 2009

Highlights:

1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C.difficile*) accounted for 53% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during May 2009.

2. Sexually Transmitted Infections (STI) & Blood-Borne Pathogens (BBP)

There were 574 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in May 2009:

- 492 reported cases of chlamydia (Ct) only
- 59 reported cases of gonorrhoea (GC) only
- 20 reported co-infections of Ct and GC
- 3 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 49 % of all reported chlamydia cases in the province.

In May 2009, there were no cases of Hepatitis B virus (HBV); 29 cases of Hepatitis C virus (HCV); and 4 cases of HIV newly reported in Manitoba.

3. Other Communicable Diseases

The numbers of reported cases within May 2009 were within the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Amebiasis – 10 positive lab confirmed cases reported; less than 9 expected in an average month.
- Rubella - 2 positive lab confirmed cases reported; less than 1 expected in an average month.

The expected number of cases and range is statistically based on the average number of reported cases during April, May and June, 2004-2008.

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. 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.

SUMMARY OF COMMUNICABLE DISEASE FOR May 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	4	10	4	0-9	19	20
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		1
320.1	BAC. MENINGITIS - PNEUM			0	0-1		1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	16	18		***	51	66
116.0	BLASTOMYCOSIS	1			***	4	2
005.1	BOTULISM				***		
023	BRUCELLA			0	0-0		
005.2	C. PERFRINGENS		2	0	0-1		2
008.43	CAMPYLOBACTER	19	18	21	6-36	77	88
558.2	CLOSTRIDIUM DIFFICILE	68	70		***	364	360
046.1	CREUTZFELD-JACOB DISEASE		1		***		2
007.8	CRYPTOSPORIDIOSIS	1		2	0-4	6	9
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-2	3	1
032	DIPHTHERIA CASES			0	0-0	1	
123.4	DIPHYLLOBOTHRIUM SPP			1	0-3	1	1
008.0	E. COLI-VEROTOXIGENIC		3	6	0-14	12	16
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	11	10	2-18	42	43
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	1	2
041.59	HAEM. INFLUENZAE (non-B)				***	6	1
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	2	1	1	0-3	6	7
070.3	HEPATITIS B			1	0-3	2	1
070.51	HEPATITIS C	31	29	32	16-48	155	160
487.1A	INFLUENZA A (NON-NOVEL H1N1)		24****		***	78	77
487.1B	INFLUENZA B	5	2		***	43	38
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES		1	0	0-1	2	1
088.81	LYME DISEASE			0	0-2		
084	MALARIA		1	2	0-6	4	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	1	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	156	147	113	25-201	829	889
072.9	MUMPS		1	0	0-2		4
036.89	N.MENINGITIDIS OTHER			0	0-0		4
728.86	NECROTIZING FASCIITIS	3		1	0-4	5	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS		3	2	0-7	7	16
038.2	PNEUM. SEPTICEMIA	16	13	9	1-17	58	49
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 mean

*** Data collected for less than 5 years.

**** Influenza A cases excluding novel H1N1. Total number of novel H1N1 cases was 109 for May 2009.

2009-07-22

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER			0	0-0	1	1
056.9	RUBELLA		2	0	0-1		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4	1	3
003.0	SALMONELLA	22	23	16	5-27	114	90
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	2	1	1	0-3	12	14
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	1
481.9	STREP PNEUMONIA - PR			0	0-1		
041.1	STREP PYOGENES - OTHER STER	7	5		***	19	36
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-2	2	
127.2	STRONGYLOIDES	2		1	0-5	3	4
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS		1	0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	3	2	2	0-4	8	9
010	TUBERCULOSIS - PRIM.	2	2	1	0-5	3	6
011	TUBERCULOSIS - RESP	17	14	9	3-15	41	50
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID			0	0-1	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	4	5		***	29	24
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROME				***		
008.44	YERSINIA ENTEROCOLITICA	1		1	0-3	1	2
		393	410			2017	2115

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

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR May 2009

ICD9	Disease Name	<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 age/gendr	Total	
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M			
006.9	AMEBIASIS			1		2	1			1					1	1		1	1	1										10
038.0	BETA STREP SEPTICEMIA	1		1								1				1			2	2	2	2	2			1	3		18	
005.2	C. PERFRINGENS															1	1												2	
008.43	CAMPYLOBACTER			1				1	2			2	1		1	2		3	1	1	2						1		18	
558.2	CLOSTRIDIUM DIFFICILE	1						1	2	1				2	2	3	1	4	5	4	7	8	9	12	8				70	
046.1	CREUTZFELD JACOB DISEASE																			1									1	
008.0	E. COLI 0157	1		1							1																		3	
007.1	GIARDIA LAMBLIA		1	1	3		1	1					1			2	1												11	
070.1	HEPATITIS A									1																			1	
070.51	HEPATITIS C						1	2						3	3	6	3	4	3	2		1					1		29	
487.1A	INFLUENZA A (NON-NOVEL H1N1)	1			1	1		1	1	1	2	1		1	3	3		2	1				1	2	1				24	
487.1B	INFLUENZA B	1												1															2	
027.0	LISTERIA MONOCYTOGENES																		1										1	
084	MALARIA																1												1	
B95.6	MRSA	3	6	6	4	2	4	6	1	4	4	4	4	8	2	10	10	6	7	7	7	5	8	4	9	7	9		147	
072.9	MUMPS																	1											1	
033.0	PERTUSSIS	2	1																										3	
038.2	PNEUM. SEPTICEMIA						1						1				1	1	3	1	1				2	1			13	
056.9	RUBELLA					1				1																			2	
003.0	SALMONELLA	1	1	2	2			1	1			2	1		2	1	2	1		1				1	1	3			23	
004	SHIGELLOSIS	1																											1	
041.1	STREP PYOGENES - OTHER ST												1						1	1		2							5	
130.9	TOXOPLASMOSIS																				1								1	
013	TUBERCULOSIS - NON-RESP.																1				1								2	
010	TUBERCULOSIS - PRIM.					1	1																						2	
011	TUBERCULOSIS - RESP						1				1		1	3	3	1	1	2				1							14	
B96.8	VANCOMYCIN RES. ENTER.							1												1	1	1				1			5	
		12	9	10	13	5	8	10	6	9	12	6	13	14	6	24	31	21	22	25	23	20	23	16	20	28	23		410	

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR May 2009

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
				F	P	F	P	F	P	F	P	F	P	F	P	F	P						
006.9	AMEBIASIS	9						1															10
038.0	BETA STREP SEPTICEMIA	10	1							1						3	1	1			1		18
005.2	C. PERFRINGENS							1					1										2
008.43	CAMPYLOBACTER	7			1		2		1		3		2		2								18
558.2	CLOSTRIDIUM DIFFICILE	42	4		2		2		6		6		2		2		1	2	1				70
046.1	CREUTZFELD JACOB DISEAS		1																				1
008.0	E. COLI 0157	1					2																3
007.1	GIARDIA LAMBLIA	5						1						4				1					11
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	15	3					7		3				1									29
487.1A	INFLUENZA A (NON-NOVEL H1N1)	18															3					3	24
487.1B	INFLUENZA B	2																					2
027.0	LISTERIA MONOCYTOGENES	1																					1
084	MALARIA	1																					1
B95.6	MRSA	49	3	3	5		4		9	5		7		3	1	9	36	13					147
072.9	MUMPS	1																					1
033.0	PERTUSSIS	1						1									1						3
038.2	PNEUM. SEPTICEMIA	8						1		1						1	1	1					13
056.9	RUBELLA	2																					2
003.0	SALMONELLA	13			1		1		2	1	2			2			1						23
004	SHIGELLOSIS	1																					1
041.1	STREP PYOGENES - OTHER	1			3							1											5
130.9	TOXOPLASMOSIS	1																					1
013	TUBERCULOSIS - NON-RESP.	1			1																		2
010	TUBERCULOSIS - PRIM.				1												1						2
011	TUBERCULOSIS - RESP	6			4												4						14
B96.8	VANCOMYCIN RES. ENTER.	1			2		1			1													5
		197	12	9	14		12	9	21	21	2	12	1	14	1	14	50	17		1	3	410	

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction OOP=Out of Province

STD Infection Summary Report - May 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	546	512	2923	2842
All Gonorrhoea Infections (including PRNG)	120	79	645	524
All Syphilis Infections	6	3	17	19
Gonorrhoea & Chlamydia Co-infections	50	20	288	222
HIV	13	4	40	46

Total Number of STD Cases by Age and Gender - May 2009

Disease Name	<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 age/gendr	Total
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M				
Chlamydia Only Cases							8	2	127	41	112	69	46	23	24	17	8	5	1	4	2	2		1			492	
Gonorrhoea Only Cases							2		4	4	12	6	8	4	4	10		1		2		2					59	
Syphilis Only Cases																1			1	1							3	
GC and CT Cases			1				2		7	1	4	2		1		1	1										20	
			1				12	2	138	46	128	77	54	28	28	29	9	6	2	7	2	4		1			574	
HIV											1				2				1								4	

Regional STD Distribution - May 2009

Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
Case Referred to:*			F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
All Chlamydia Infections	267	16	14	16	1	10	10	16		16		30	4	7		16	62	20		6	1	512
All Gonorrhoea Infections	39	1	2			1	2	1		5		1	1		1	3	16	5		1		79
All Syphilis Infections	2	1																				3
GC and CT Infections	7	1								2			1				9					20

* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction OOP=Out of Province