

## Manitoba Monthly Communicable Disease Report

Reported up to March 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 59% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during March 2009.

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

There were 683 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in March, 2009:

- 559 reported cases of chlamydia (Ct) only
- 62 reported cases of gonorrhoea (GC) only
- 53 reported co-infections of Ct and GC
- 9 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 44 % of all reported chlamydia cases in the province.

In March 2009, there was one case of Hepatitis B virus (HBV); 40 cases of Hepatitis C virus (HCV); and 9 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in March 2009 was within the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- *Neisseria meningitidis* (in a sterile site other than blood or brain fluid) – 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 February, March and April, 2004-2009.

### 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 March 2009**

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	4	4	3	0-7	12	7
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS		1	0	0-1		1
320.1	BAC. MENINGITIS - PNEUM			0	0-1		1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	10	14		***	28	34
116.0	BLASTOMYCOSIS	1	1		***	2	2
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-2		
008.43	CAMPYLOBACTER	15	6	15	2-28	46	41
558.2	CLOSTRIDIUM DIFFICILE	68	82		***	216	220
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS		1	2	0-5	4	6
061.0	DENGUE FEVER			0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-2		1
032	DIPHTHERIA CASES			0	0-1	1	
123.4	DIPHYLLOBOTHRIUM SPP		1	0	0-1	1	1
008.0	E. COLI-VEROTOXIGENIC	4	4	3	0-7	9	12
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	10	8	3-13	23	22
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-2	1	
041.59	HAEM. INFLUENZAE (non-B)	2			***	4	1
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	1	2	1	0-3	3	3
070.3	HEPATITIS B		1	1	0-2	1	1
070.51	HEPATITIS C	35	40	32	12-52	92	103
487.1A	INFLUENZA A	16	22		***	72	37
487.1B	INFLUENZA B	9	21		***	28	33
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1	2	
088.81	LYME DISEASE			0	0-0		
084	MALARIA		1	1	0-2	4	5
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF	1		0	0-1	1	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD	1		0	0-1	2	
B95.6	MRSA	173	184	107	17-197	499	562
072.9	MUMPS			0	0-1		3
036.89	N.MENINGITIDIS OTHER		2	0	0-0		4
728.86	NECROTIZING FASCIITIS	1		1	0-2	2	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS			3	0-10	7	1
038.2	PNEUM. SEPTICEMIA	10	10	9	1-17	30	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 mean

\*\*\* Data collected for less than 5 years.

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER		1	0	0-1	1	1
056.9	RUBELLA			0	0-1		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	4	1	0-4	1	4
003.0	SALMONELLA	30	15	16	3-29	69	48
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	1	2	2	0-5	8	10
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER STER	7	5		***	10	23
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	1		0	0-2	2	
127.2	STRONGYLOIDES			0	0-1		4
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-0		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	1	3	1-5	4	7
010	TUBERCULOSIS - PRIM.			3	1-9		1
011	TUBERCULOSIS - RESP.	8	12	9	3-12	17	22
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID			0	0-1		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	8	1		***	16	15
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	0-3		
		<b>420</b>	<b>449</b>			<b>1221</b>	<b>1267</b>

\* 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 March 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											1	2											4	
005.8	B. CEREUS															1														1	
038.0	BETA STREP SEPTICEMIA	3				1	1							1	1	1	1				2	1	1					1		14	
116.0	BLASTOMYCOSIS																							1						1	
008.43	CAMPYLOBACTER			1	2					1								1		1										6	
558.2	CLOSTRIDIUM DIFFICILE					2						1	2		1	2		8	1	5	4	8	5	8	5	18	12			82	
007.8	CRYPTOSPORIDIOSIS													1																1	
V02.4	DIPH. CARRIERS																	1												1	
123.4	DIPHYLLOBOTHRIUM																				1									1	
008.0	E. COLI 0157			1		1	1					1																		4	
007.1	GIARDIA LAMBLIA			2	1	1	1								2					1		1					1			10	
070.1	HEPATITIS A													1		1															2
070.3	HEPATITIS B														1																1
070.51	HEPATITIS C								1				1	2	4	15	1	5		8	1	1						1		40	
487.1A	INFLUENZA A		1	1	3			1							1	2	1			1	1		1	1	6	2				22	
487.1B	INFLUENZA B	1	5	2	2	1	2	3		1			1	1		1		1													21
084	MALARIA														1																1
B95.6	MRSA	3	8	6	8	3	1	3	2	7	4	10	10	8	7	4	8	14	12	7	15	7	5	6	7	10	9			184	
036.89	NEISSERIA MGTS(Other)																			1							1				2
038.2	PNEUM. SEPTICEMIA	1	1													2		1	2		1				1			1		10	
083.0	Q. FEVER															1															1
003.0	SALMONELLA					1						1	1	2	1	1	3		2						3					15	
004	SHIGELLOSIS											1									1										2
041.1	STREP PYOGENES - OTHER ST			1																	2	2									5
041.2	STREP.PNEUM.OTHER					1															1		2								4
013	TUBERCULOSIS - NONRESP.															1															1

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				
011	TUBERCULOSIS - RESP.									1						1	2	1	1	1	1	1	1	1			1		12
B96.8	VANCOMYCIN RES. ENTER.																										1		1
		8	15	14	16	11	7	7	2	11	4	14	14	14	14	17	37	29	25	15	36	23	18	17	17	36	27		449

**SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR March 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	1	1				1										1						4
005.8	B. CEREUS																1						1
038.0	BETA STREP SEPTICEMIA	8							1		1								2		2		14
116.0	BLASTOMYCOSIS				1																		1
008.43	CAMPYLOBACTER	3							1				2										6
558.2	CLOSTRIDIUM DIFFICILE	47	8		3		5		2		4		4		3		3		2			1	82
007.8	CRYPTOSPORIDIOSIS												1										1
V02.4	DIPH. CARRIERS																	1					1
123.4	DIPHYLLOBOTHRIUM						1																1
008.0	E. COLI 0157	1							1		1		1										4
007.1	GIARDIA LAMBLIA	3							1		1		3				1			1			10
070.1	HEPATITIS A	2																					2
070.3	HEPATITIS B	1																					1
070.51	HEPATITIS C	25	2		1			3	1		3	1		1	1					1		1	40
487.1A	INFLUENZA A	15					3		2						1					1			22
487.1B	INFLUENZA B	4			1		1		3		5		2					2	2		1		21
084	MALARIA	1																					1
B95.6	MRSA	71	5	1	5				7		2		2		7	1	6	52	24			1	184
036.89	NEISSERIA MGTS(Other)										1						1						2
038.2	PNEUM. SEPTICEMIA	2	1		1				1				2					2	1				10
083.0	Q. FEVER																1						1
003.0	SALMONELLA	9			2		2				1							1					15
004	SHIGELLOSIS	1											1										2
041.1	STREP PYOGENES - OTHER	3			1														1				5
041.2	STREP.PNEUM.OTHER	4																					4
013	TUBERCULOSIS - NONRESP.	1																					1
011	TUBERCULOSIS - RESP.	7			1		1											2		1			12
B96.8	VANCOMYCIN RES. ENTER.																1						1

\* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

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						
	<i>Case Referred to:*</i>																						
		209	17	2	15	1	13	3	20		19	1	18	1	12	1	15	65	32	1	2	2	449

\* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction  
Public Health Division, Manitoba Health      PHS\_MTHY\_RPT3      (External)



## STD Infection Summary Report - March 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	556	612	1772	1774
All Gonorrhoea Infections (including PRNG)	112	115	370	344
All Syphilis Infections	2	9	9	15
Gonorrhoea & Chlamydia Co-infections	53	53	177	154
HIV	4	9	17	30

## Total Number of STD Cases by Age and Gender - March 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					1		2	1	115	46	127	73	56	46	34	27	12	12	3	3		1						559
Gonorrhoea Only Cases		1	1					1	11	3	9	8	4	8	5	7		2						1	1			62
Syphilis Only Cases														1	3	1				1	2					1		9
GC and CT Cases							2		17	2	11	5	6	2	2	3		3										53
		1	1		1		4	2	143	51	147	86	66	57	44	38	12	17	3	4	2	1		1	1	1		683
HIV									1		2			1	2			2					1					9

## Regional STD Distribution - March 2009

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	F	P				
All Chlamydia Infections	305	23	19	9	1	7	10	22	3	38		22	4	13	4	32	69	20	3	6	2	612
All Gonorrhoea Infections	62		4	4			4	3		8		1			4	21	1			2	1	115
All Syphilis Infections	8																			1		9
GC and CT Infections	27		2	1			2	1	4						2	13				1		53

\* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction