

## Manitoba Monthly Communicable Disease Report

Reported up to January 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 67% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during January 2009.

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

There were 713 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2009:

- 586 reported cases of chlamydia (Ct) only
- 69 reported cases of gonorrhoea (GC) only
- 56 reported co-infections of Ct and GC and
- 2 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 45% of all reported chlamydia cases in the province.

In January 2009, there were no cases of Hepatitis B virus (HBV), 33 cases of Hepatitis C virus (HCV) and 14 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- Methicillin-resistant *Staphylococcus aureus* (MRSA) – 209 isolates reported, less than 208 expected in an average month
- *Neisseria meningitidis* (in a sterile site other than blood or brain fluid) – 1 positive lab confirmed case reported; less than one expected in an average month

The expected number of cases and range is statistically based on the average number of reported cases during December, January and February, 2003-2009.

### 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 January 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	4	1	3	0-6	4	1
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM		1	0	0-1		1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	12	10		***	12	10
116.0	BLASTOMYCOSIS		1		***		1
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	14	19	13	6-20	14	19
558.2	CLOSTRIDIUM DIFFICILE	81	80		***	81	80
046.1	CREUTZFELD-JACOB DISEASE		1		***		1
007.8	CRYPTOSPORIDIOSIS	3	3	1	0-4	3	3
061.0	DENGUE FEVER	1		0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		
032	DIPHTHERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1		
008.0	E. COLI-VEROTOXIGENIC	3	3	2	0-6	3	3
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	8	3	8	1-15	8	3
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)	2	1		***	2	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1		1	0-3	1	
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	23	33	30	12-48	23	33
487.1A	INFLUENZA A	13	1		***	13	1
487.1B	INFLUENZA B	5	1		***	5	1
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	1	
088.81	LYME DISEASE			0	0-1		
084	MALARIA	2	1	1	0-3	2	1
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD	1		0	0-1	1	
B95.6	MRSA	189	209	116	25-207	189	209
072.9	MUMPS		1	0	0-1		1
036.89	N.MENINGITIDIS OTHER		1	0	0-0		1
728.86	NECROTIZING FASCIITIS		2	1	0-4		2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	1	4	0-12	1	1
038.2	PNEUM. SEPTICEMIA	11	13	8	2-14	11	13
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			0	0-1		
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			0	0-1		
003.0	SALMONELLA	23	20	15	1-29	23	20
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	2	4	2	0-5	2	4
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 STER	2	9		***	2	9
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		2	1	0-5		2
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	2	2	1-4	2	2
010	TUBERCULOSIS - PRIM.		1	2	1-3		1
011	TUBERCULOSIS - RESP.	5	3	6	1-12	5	3
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID		1	0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	6		***	5	6
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>414</b>	<b>434</b>			<b>414</b>	<b>434</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 January 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
320.1	BAC. MENINGITIS - PNEUM																					1							1
038.0	BETA STREP SEPTICEMIA							1				1				3		1		2		2							10
116.0	BLASTOMYCOSIS															1													1
008.43	CAMPYLOBACTER		1	2			1				2	1		2	1		2	1	2		2				1	1			19
558.2	CLOSTRIDIUM DIFFICILE			1							1	1		1		2	1	1	2	5	5	6	13	8	8	18	7		80
046.1	CREUTZFELD JACOB DISEASE																			1									1
007.8	CRYPTOSPORIDIOSIS					1	1									1													3
008.0	E. COLI 0157										1			1		1													3
007.1	GIARDIA LAMBLIA			1	2																								3
041.59	HAEM. INFLUENZAE (non-B)	1																											1
070.51	HEPATITIS C										4	3	1	1	1	6	3	5	4	2	1	1	1						33
487.1A	INFLUENZA A															1													1
487.1B	INFLUENZA B	1																											1
084	MALARIA														1														1
B95.6	MRSA	5	5	12	7	4	4	4	6	6	3	10	5	6	6	9	9	8	7	7	9	13	10	11	13	16	14		209
072.9	MUMPS														1														1
728.86	NECROTIZING FASCIITIS																			2									2
036.89	NEISSERIA MGTS(Other)																									1			1
033.0	PERTUSSIS		1																										1
038.2	PNEUM. SEPTICEMIA		1				1	1			1	1				1		1	2	1				1		2			13
003.0	SALMONELLA	1	1	2	1		1	1				2	1			1	1	1	1	1	1	3		1					20
004	SHIGELLOSIS									1			1			1	1												4
041.1	STREP PYOGENES - OTHER ST			1												1		4	1				1	1					9
127.2	STRONGYLOIDIASIS																					1	1						2
013	TUBERCULOSIS - NONRESP.																	1		1									2

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		
010	TUBERCULOSIS - PRIM.			1																									1
011	TUBERCULOSIS - RESP.									1						2													3
002.0	TYPHOID																		1										1
B96.8	VANCOMYCIN RES. ENTER.																				1		1	2	1	1			6
		8	9	20	10	5	8	7	6	8	7	18	12	11	11	21	24	15	24	24	23	24	28	23	27	36	25		434

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**SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR     January 2009**


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ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>				<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>				
006.9	AMEBIASIS										1												1
320.1	BAC. MENINGITIS - PNEUM	1																					1
038.0	BETA STREP SEPTICEMIA	5			1		1						2		1								10
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	8	4				5				1		1										19
558.2	CLOSTRIDIUM DIFFICILE	46	6		7		6	1	3		4		4		1			2					80
046.1	CREUTZFELD JACOB DISEASE	1																					1
007.8	CRYPTOSPORIDIOSIS	1					2																3
008.0	E. COLI 0157		1		1		1																3
007.1	GIARDIA LAMBLIA	1																1	1				3
041.59	HAEM. INFLUENZAE (non-B)										1												1
070.51	HEPATITIS C	21	1		1		1		1		1	1	2		1		1	1			1		33
487.1A	INFLUENZA A				1																		1
487.1B	INFLUENZA B										1												1
084	MALARIA	1																					1
B95.6	MRSA	102	3	2	2		4		6		7		1		5	1	7	41	27		1		209
072.9	MUMPS				1																		1
728.86	NECROTIZING FASCIITIS	2																					2
036.89	NEISSERIA MGTS(Other)	1																					1
033.0	PERTUSSIS										1												1
038.2	PNEUM. SEPTICEMIA	7					1				3							2					13
003.0	SALMONELLA	14					1				2				2				1				20
004	SHIGELLOSIS				1						1						1	1					4
041.1	STREP PYOGENES - OTHER	8																	1				9
127.2	STRONGYLOIDIASIS	2																					2
013	TUBERCULOSIS - NONRESP.	1																1					2
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP.	2										1											3
002.0	TYPHOID	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
Case Referred to:*				F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
B96.8	VANCOMYCIN RES. ENTER.	4		1								1											6
		230	15	3	15		22	1	10		23	2	11		10	1	9	50	30		2		434

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



## STD Infection Summary Report - January 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	655	642	655	642
All Gonorrhea Infections (including PRNG)	148	125	148	125
All Syphilis Infections	5	2	5	2
Gonorrhea & Chlamydia Co-infections	63	56	63	56
HIV	6	14	6	14

## Total Number of STD Cases by Age and Gender - January 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	F	M		
Chlamydia Only Cases					1		7	2	144	50	124	73	58	41	31	32	10	11	2									586
Gonorrhea Only Cases		1							8	4	12	14	7	4	3	7	3	4		2								69
Syphilis Only Cases																1		1										2
GC and CT Cases					1		1		14	6	10	10	2	2	3	5		2										56
		1			2		8	2	166	60	146	97	67	47	37	45	13	18	2	2								713
HIV									1		3	1		1	2	3		1	1		1							14

## Regional STD Distribution - January 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	364	28	11	10		11	7	18	3	37		10	6	10	7	32	60	26		1	1	642
All Gonorrhea Infections	68	2	3	2		1		1	1	2				3	6	4	22	9			1	125
All Syphilis Infections	2																					2
GC and CT Infections	33							1							3	1	11	7				56

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

## Manitoba Monthly Communicable Disease Report

Reported up to February 28, 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 February, 2009.

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

There were 583 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in February 2009:

- 475 reported cases of chlamydia (Ct) only
- 59 reported cases of gonorrhoea (GC) only
- 45 reported co-infections of Ct and GC and
- 4 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 45% of all reported chlamydia cases in the province.

In February 2009, there were no cases of Hepatitis B virus (HBV), 30 cases of Hepatitis C virus (HCV) and 7 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- Verotoxigenic *E. coli* – 5 lab confirmed cases reported; less than 5 expected in an average month
- Mumps – 2 lab confirmed cases reported; less than 2 expected in an average month
- *Neisseria meningitidis* (in a sterile site other than blood or brain fluid) – 1 positive lab confirmed case reported; less than one expected in an average month

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

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022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM			0	0-1		1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	6	10		***	18	20
116.0	BLASTOMYCOSIS	1			***	1	1
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-2		
008.43	CAMPYLOBACTER	17	16	14	8-20	31	35
558.2	CLOSTRIDIUM DIFFICILE	67	58		***	148	138
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	1	2	2	0-5	4	5
061.0	DENGUE FEVER			0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-0		
032	DIPHTHERIA CASES	1		0	0-1	1	
123.4	DIPHYLLOBOTHRIUM SPP	1		0	0-1	1	
008.0	E. COLI-VEROTOXIGENIC	2	5	2	0-4	5	8
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	4	9	8	2-14	12	12
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)	1		0	0-2	1	
041.59	HAEM. INFLUENZAE (non-B)				***	2	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	1	1	2	0-4	2	1
070.3	HEPATITIS B	1		0	0-1	1	
070.51	HEPATITIS C	34	30	33	13-53	57	63
487.1A	INFLUENZA A	43	14		***	56	15
487.1B	INFLUENZA B	14	11		***	19	12
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	
088.81	LYME DISEASE			0	0-0		
084	MALARIA	2	3	1	0-3	4	4
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			1	0-2		
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	1	
B95.6	MRSA	137	169	116	26-206	326	378
072.9	MUMPS		2	0	0-1		3
036.89	N.MENINGITIDIS OTHER		1	0	0-0		2
728.86	NECROTIZING FASCIITIS	1	1	1	0-3	1	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	6		3	0-10	7	1
038.2	PNEUM. SEPTICEMIA	9	3	8	1-15	20	16
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	
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4		
003.0	SALMONELLA	16	13	17	3-31	39	33
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	5	4	2	0-4	7	8
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK	2			***	2	
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER STER	1	9		***	3	18
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE	1		0	0-1	1	
127.2	STRONGYLOIDES		2	0	0-2		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.		4	2	1-4	2	6
010	TUBERCULOSIS - PRIM.			4	1-9		1
011	TUBERCULOSIS - RESP.	4	7	7	3-12	9	10
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID			0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	3	8		***	8	14
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>387</b>	<b>384</b>			<b>801</b>	<b>818</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 February 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
038.0	BETA STREP SEPTICEMIA		1													2		1	1	1		3		1					10
008.43	CAMPYLOBACTER			2		2				1						2	1	2	1	1	1	1	1		1				16
558.2	CLOSTRIDIUM DIFFICILE		1			1								1		2	3	4		3	1	5	7	3	4	15	8		58
007.8	CRYPTOSPORIDIOSIS					1						1																	2
008.0	E. COLI 0157			1		1				1		1								1									5
007.1	GIARDIA LAMBLIA			1		1	1		1			1	2					1		1									9
070.1	HEPATITIS A															1													1
070.51	HEPATITIS C								1			1	1	5	1	3	5		5		5		2	1					30
487.1A	INFLUENZA A		1		1										1			1						2		6	2		14
487.1B	INFLUENZA B			2		2	1	1	1	1	1		1													1			11
084	MALARIA											1	1					1											3
B95.6	MRSA	6	3	5	5	5	5	3	4	3	5	2	8	5	7	11	7	12	13	8	10	1	7	5	10	10	9		169
072.9	MUMPS													1		1													2
728.86	NECROTIZING FASCIITIS															1													1
036.89	NEISSERIA MGTS(Other)																			1									1
038.2	PNEUM. SEPTICEMIA								1											1		1							3
003.0	SALMONELLA		1					2	1							2	1			3				2	1				13
004	SHIGELLOSIS			1	1											1					1								4
041.1	STREP PYOGENES - OTHER ST					1				1				1				2		3	1								9
127.2	STRONGYLOIDIASIS			1											1														2
013	TUBERCULOSIS - NONRESP.						1							1			1			1									4
011	TUBERCULOSIS - RESP.							1						1				1		1	1	2							7
B96.8	VANCOMYCIN RES. ENTER.											1			1	1		1				2				1	1		8
		6	7	13	7	12	9	5	9	9	7	7	13	13	14	25	21	23	23	20	24	9	25	13	17	33	20		384

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR February 2009

ICD9	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				
006.9	AMEBIASIS		1											1					1				2
038.0	BETA STREP SEPTICEMIA	7								1				1					1				10
008.43	CAMPYLOBACTER	8				1		2		3		1						1					16
558.2	CLOSTRIDIUM DIFFICILE	30	7		1		5		3		1		4		5		1		1				58
007.8	CRYPTOSPORIDIOSIS	1								1													2
008.0	E. COLI 0157	5																					5
007.1	GIARDIA LAMBLIA	5				1				2		1											9
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	21	3				2	1	1								1				1		30
487.1A	INFLUENZA A	13															1						14
487.1B	INFLUENZA B	3			2					5				1									11
084	MALARIA	2										1											3
B95.6	MRSA	60	1	2	4		1	1	5		3		6		7		6	43	29		1		169
072.9	MUMPS			1	1																		2
728.86	NECROTIZING FASCIITIS	1																					1
036.89	NEISSERIA MGTS(Other)	1																					1
038.2	PNEUM. SEPTICEMIA	1																2					3
003.0	SALMONELLA	6							3					2				2					13
004	SHIGELLOSIS	1							1	1							1						4
041.1	STREP PYOGENES - OTHER	4							1				1				1	1	1				9
127.2	STRONGYLOIDIASIS	1								1													2
013	TUBERCULOSIS - NONRESP.	2		1														1					4
011	TUBERCULOSIS - RESP.	6																1					7
B96.8	VANCOMYCIN RES. ENTER.	6			1								1										8
		185	12	4	9		10	2	16		18		15		17		11	51	32		2		384

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

## STD Infection Summary Report - February 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	561	520	1216	1162
All Gonorrhea Infections (including PRNG)	110	104	258	229
All Syphilis Infections	2	4	7	6
Gonorrhea & Chlamydia Co-infections	61	45	124	101
HIV	7	7	13	21

## Total Number of STD Cases by Age and Gender - February 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	F	M		
Chlamydia Only Cases		1					9	3	136	46	93	68	38	18	21	18	9	11	2	1				1				475
Gonorrhea Only Cases									2	6	11	8	5	5	9	8		2		2				1				59
Syphilis Only Cases														2		1		1										4
GC and CT Cases							2		9	3	11	9	2		3	4		1		1								45
		1					11	3	147	55	115	85	45	25	33	31	9	15	2	4				2				583
HIV									1						3	1		2										7

## Regional STD Distribution - February 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	250	17	14	6		5	11	18		24		23	3	16	2	25	74	25		6	1	520
All Gonorrhea Infections	48	1	1	2			2	2		5			1	4	5	1	18	11		3		104
All Syphilis Infections	3							1														4
GC and CT Infections	21			1			1							2	1		13	6				45

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



## 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	DIPHYLLOBOTRIUM 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 PARAHAEEMOLYTICUS				***		
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	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

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**SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR     March 2009**


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ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>				<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>				
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
Case Referred to:*				F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
		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



## 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 Gonorrhea Infections (including PRNG)	112	115	370	344
All Syphilis Infections	2	9	9	15
Gonorrhea & 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	F	M		
Chlamydia Only Cases					1		2	1	115	46	127	73	56	46	34	27	12	12	3	3		1						559
Gonorrhea 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
Case Referred to:*			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 Gonorrhea 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

## Manitoba Monthly Communicable Disease Report

Reported up to April 30, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 58% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during April 2009.

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

There were 613 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in April 2009:

- 512 reported cases of chlamydia (Ct) only
- 53 reported cases of gonorrhoea (GC) only
- 46 reported co-infections of Ct and GC and
- 2 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 51% of all reported chlamydia cases in the province.

In April 2009, there were no cases of Hepatitis B virus (HBV), 27 cases of Hepatitis C virus (HCV) and 11 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- Pertussis – 12 positive lab confirmed cases reported; less than eight expected in an average month

The expected number of cases and range is statistically based on the number of reported cases during March, April and May, 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 April 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	3	4	3	0-8	15	10
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	7	14		***	35	48
116.0	BLASTOMYCOSIS	1			***	3	2
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-2		
008.43	CAMPYLOBACTER	12	24	17	4-30	58	68
558.2	CLOSTRIDIUM DIFFICILE	80	70		***	296	290
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	1	3	2	0-5	5	9
061.0	DENGUE FEVER			0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	3		0	0-2	3	1
032	DIPHTHERIA CASES			0	0-0	1	
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	1	1
008.0	E. COLI-VEROTOXIGENIC	3	1	4	0-9	12	13
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	8	8	9	5-13	31	31
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)		2	0	0-2	1	2
041.59	HAEM. INFLUENZAE (non-B)	2			***	6	1
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	2	2	1	0-3	5	6
070.3	HEPATITIS B	1		1	0-3	2	1
070.51	HEPATITIS C	32	27	33	16-50	124	130
487.1A	INFLUENZA A	6	19		***	78	56
487.1B	INFLUENZA B	10	4		***	38	37
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	0-4	4	5
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	174	179	108	20-196	673	741
072.9	MUMPS			0	0-2		3
036.89	N.MENINGITIDIS OTHER			0	0-0		4
728.86	NECROTIZING FASCIITIS			1	0-3	2	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS		12	2	0-7	7	13
038.2	PNEUM. SEPTICEMIA	12	10	9	1-17	42	36
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			0	0-0	1	1
056.9	RUBELLA			0	0-1		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4	1	3
003.0	SALMONELLA	23	18	16	4-28	92	66
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	2	2	1	0-3	10	13
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK		1		***	2	1
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER STER	2	7		***	12	31
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	1		1	0-5	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.	1		2	1-5	5	7
010	TUBERCULOSIS - PRIM.	1	4	3	1-9	1	5
011	TUBERCULOSIS - RESP.	7	11	10	6-17	24	32
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID	1		0	0-1	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	9	4		***	25	19
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
		<b>404</b>	<b>427</b>			<b>1625</b>	<b>1698</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 April 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			1				1												4
038.0	BETA STREP SEPTICEMIA	1	1										1	2	1			1	1	1	2	1			1		1		14
008.43	CAMPYLOBACTER	1		3	1	1	1			1	4		1	2	1		3					2	2		1				24
558.2	CLOSTRIDIUM DIFFICILE		1		2	3	1	1			1	1	2		1	4	1	5	2	3	5	7	4	5	5	11	5		70
007.8	CRYPTOSPORIDIOSIS						1			1								1											3
008.0	E. COLI 0157																			1									1
007.1	GIARDIA LAMBLIA				1	1	1	1					1				1		1		1								8
041.5	H.INFLUENZAE (OTHER STER	1							1																				2
070.1	HEPATITIS A														1				1										2
070.51	HEPATITIS C													2	2	4	5	2	3	1	3	2	1		2				27
487.1A	INFLUENZA A	2		1	1		1	1		1										2			1		1	5	3		19
487.1B	INFLUENZA B	1	1				1											1											4
B95.6	MRSA	4	7	8	6	6	6	4	3	6	3	7	5	4	6	13	6	9	11	12	8	8	11	2	12	1	11		179
033.0	PERTUSSIS	1	1		3	1			1	2				1	1											1			12
038.2	PNEUM. SEPTICEMIA															1	1		1		2	1	1		1	2			10
003.0	SALMONELLA		1		1		1					1					2	1	2	3	3	2					1		18
004	SHIGELLOSIS								1														1						2
785.5	STAPHYLOCOCCUS AUREUS			1																									1
041.1	STREP PYOGENES - OTHER ST	1		1					1									1	1		1		1						7
010	TUBERCULOSIS - PRIM			1	1	1			1																				4
011	TUBERCULOSIS - RESP									1	1				1	3	1	1				1			1		1		11
B96.8	VANCOMYCIN RES. ENTER.																1	1	1					1					4
008.44	YERSINIA ENTEROCOLITICA																			1									1
		12	12	15	16	13	14	7	8	12	9	10	11	11	14	25	22	23	24	24	25	24	22	8	24	20	22		427

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR April 2009

ICD9	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				
006.9	AMEBIASIS	3					1																4
038.0	BETA STREP SEPTICEMIA	6	1		1				2		2							2					14
008.43	CAMPYLOBACTER	8	2				3		3		4		1	1	2								24
558.2	CLOSTRIDIUM DIFFICILE	43	5		1		2		3		2		7		4		1		2				70
007.8	CRYPTOSPORIDIOSIS	1							1				1										3
008.0	E. COLI 0157																	1					1
007.1	GIARDIA LAMBLIA	5	1								1				1								8
041.5	H.INFLUENZAE (OTHER STE P	2																					2
070.1	HEPATITIS A	2																					2
070.51	HEPATITIS C	14	1		1		1	1	5		1		1		1				1				27
487.1A	INFLUENZA A	13	1						1				1						2		1		19
487.1B	INFLUENZA B										3									1			4
B95.6	MRSA	67	1	1	3		1	1	9		6		4		6	1	9	47	21	1		1	179
033.0	PERTUSSIS	1					1						10										12
038.2	PNEUM. SEPTICEMIA	6									1							3					10
003.0	SALMONELLA	10	1				2						2		1		1	1					18
004	SHIGELLOSIS	1											1										2
785.5	STAPHYLOCOCCUS AUREUS												1										1
041.1	STREP PYOGENES - OTHER ET	5									1		1										7
010	TUBERCULOSIS - PRIM				3													1					4
011	TUBERCULOSIS - RESP	5			2				1									2	1				11
B96.8	VANCOMYCIN RES. ENTER.	2					1											1					4
008.44	YERSINIA ENTEROCOLITICA		1																				1
		194	14	6	6		12	2	25		21		30	1	15	1	11	58	27	2	1	1	427

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

## STD Infection Summary Report - April 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	610	558	2382	2334
All Gonorrhea Infections (including PRNG)	155	99	525	444
All Syphilis Infections	2	2	11	17
Gonorrhea & Chlamydia Co-infections	61	46	238	201
HIV	10	11	27	41

## Total Number of STD Cases by Age and Gender - April 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	F	M		
Chlamydia Only Cases					1	6	1	153	38	107	65	39	28	32	21	8	4	4	3	2								512
Gonorrhea Only Cases								4	1	10	3	4	10	6	8	4	1		1		1							53
Syphilis Only Cases																	1						1					2
GC and CT Cases							1	14	7	10	6	2	4	1	1													46
					1	6	2	171	46	127	74	45	42	39	30	12	6	4	4	2	1		1					613
HIV															5	1		2		1		1		1				11

## Regional STD Distribution - April 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	11	14	8		9	7	16		27		30	9	15	4	16	83	38		3	1	558
All Gonorrhea Infections	44		6	1	1	1	3			4		3	2			4	16	13		1		99
All Syphilis Infections	2																					2
GC and CT Infections	15		4			1	2			3		1	1			1	12	6				46

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



## 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	BRUCELLOSIS			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
		<b>393</b>	<b>410</b>			<b>2017</b>	<b>2115</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 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	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	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
Case Referred to:*				F	P	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 DISEASE		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 Gonorrhea Infections (including PRNG)	120	79	645	524
All Syphilis Infections	6	3	17	19
Gonorrhea & 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	F	M		
Chlamydia Only Cases							8	2	127	41	112	69	46	23	24	17	8	5	1	4	2	2		1				492
Gonorrhea 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 Gonorrhea 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

## Manitoba Monthly Communicable Disease Report

Reported up to June 30, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (C.difficile) accounted for 64% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during June 2009.

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

There were 580 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in June 2009:

- 502 reported cases of chlamydia (Ct) only
- 48 reported cases of gonorrhoea (GC) only
- 25 reported co-infections of Ct and GC
- 5 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 48 % of all reported chlamydia cases in the province.

In June 2009, there were no cases of Hepatitis B virus (HBV); 28 cases of Hepatitis C virus (HCV); and 8 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- Pneumococcal septicemia – 18 positive lab-confirmed cases reported; less than 15 expected in an average month.
- Salmonella - 29 positive lab-confirmed cases reported; less than 26 expected in an average month.
- Streptococcal toxic shock – 1 positive lab-confirmed case reported; no cases expected in an average month.

The expected number of cases and range is statistically based on the average number of reported cases during May, June and July, 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 June 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	3	4	3	0-7	22	24
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS	1	1	0	0-1	1	2
320.1	BAC. MENINGITIS - PNEUM	1	1	0	0-1	1	2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	7	12		***	58	78
116.0	BLASTOMYCOSIS	3	1		***	7	3
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		1
005.2	C. PERFRINGENS			0	0-1		2
008.43	CAMPYLOBACTER	17	14	24	11-37	94	102
558.2	CLOSTRIDIUM DIFFICILE	76	77		***	440	438
046.1	CREUTZFELD-JACOB DISEASE	1			***	1	2
007.8	CRYPTOSPORIDIOSIS	1		2	0-6	7	9
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	3	1
032	DIPHThERIA CASES			0	0-1	1	
123.4	DIPHYLLOBOTHRIUM SPP			1	0-3	1	1
008.0	E. COLI-VEROTOXIGENIC	5		8	0-21	17	16
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	20	13	13	3-23	62	56
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)	1			***	7	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A		2	2	0-5	6	9
070.3	HEPATITIS B			1	0-2	2	1
070.51	HEPATITIS C	36	28	31	16-46	191	188
487.1A	INFLUENZA A (NON-NOVEL H1N1)		12****		***	78	89
487.1B	INFLUENZA B	1			***	44	38
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	1
088.81	LYME DISEASE			1	0-4		
084	MALARIA	1		2	0-6	5	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF	1		0	0-1	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	166	216	130	36-224	995	1106
072.9	MUMPS		1	1	0-3		5
036.89	N.MENINGITIDIS OTHER			0	0-0		4
728.86	NECROTIZING FASCIITIS	2		2	0-6	7	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	1	3	0-8	8	17
038.2	PNEUM. SEPTICEMIA	8	18	8	1-15	66	67
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 699 for June 2009.

2009-07-31

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			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-3	1	3
003.0	SALMONELLA	25	29	16	6-26	139	119
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS			0	0-1	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	1	2		***	20	38
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK		1	0	0-0		1
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	2	
127.2	STRONGYLOIDES			1	0-5	3	4
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	1	1	2	0-4	9	10
010	TUBERCULOSIS - PRIM.			2	0-5	3	6
011	TUBERCULOSIS - RESP	11	14	9	3-16	53	61
021.9	TULAREMIA	1		0	0-1	1	
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	9	8		***	38	32
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	2	2
		<b>401</b>	<b>456</b>			<b>2419</b>	<b>2571</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 June 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																				4
005.8	B. CEREUS									1																			1
320.1	BAC. MENINGITIS - PNEUM													1															1
038.0	BETA STREP SEPTICEMIA													1		2		1	1	2	1			1	1	1	1		12
116.0	BLASTOMYCOSIS													1															1
008.43	CAMPYLOBACTER				1		1	1	1			1		1		1	1		2	1			2	1					14
558.2	CLOSTRIDIUM DIFFICILE	1									1	2	1		2		1	5	4	1	1	6	2	7	9	18	16		77
007.1	GIARDIA LAMBLIA			2	3		4					1				1			1			1							13
070.1	HEPATITIS A															1						1							2
070.51	HEPATITIS C								1					1	1	4	2	2	8	2	3		1			1	1	1	28
487.1A	INFLUENZA A (NON-NOVEL H1N1)	2	2	1							1		2			1			1	1		1							12
B95.6	MRSA	1	3	16	13	6	4	7	7	8	7	10	7	9	5	10	14	13	12	9	10	9	7	6	7	9	7		216
072.9	MUMPS																	1											1
033.0	PERTUSSIS		1																										1
038.2	PNEUM. SEPTICEMIA			2	1					1	1	1		1		2	4		3	1				1					18
003.0	SALMONELLA				2	1	1	3	1	1		1		4		1		6		1	5		1			1			29
041.1	STREP PYOGENES - OTHER ST																			1				1					2
040.89	STREPTOCOCCAL TOXIC SHOCK																			1									1
013	TUBERCULOSIS - NON-RESP.																		1										1
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP							1	1					2	2	1		2	1	2				1	1				14
B96.8	VANCOMYCIN RES. ENTER.									1	1						1			1	2	1			1				8
		4	6	21	20	8	12	11	11	12	12	17	10	18	11	22	25	28	33	20	27	21	12	18	20	30	26		456

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR June 2009

ICD9	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				
006.9	AMEBIASIS	4																					4
005.8	B. CEREUS	1																					1
320.1	BAC. MENINGITIS - PNEUM								1														1
038.0	BETA STREP SEPTICEMIA	9					1				1								1				12
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	5	1		1		1		2		2		1		1								14
558.2	CLOSTRIDIUM DIFFICILE	51	4				7				8				3			2	2				77
007.1	GIARDIA LAMBLIA	9							1		1								2				13
070.1	HEPATITIS A	1											1										2
070.51	HEPATITIS C	16	2				1	4	2		1		1				1						28
487.1A	INFLUENZA A (NON-NOVEL H1N1)	6												1			1	2				2	12
B95.6	MRSA	79	3	2	3		3	2	5	1	4		3			1	17	85	8				216
072.9	MUMPS				1																		1
033.0	PERTUSSIS																	1					1
038.2	PNEUM. SEPTICEMIA	5			1				1		2		1					7	1				18
003.0	SALMONELLA	9	1		1		1			1	3			11	2								29
041.1	STREP PYOGENES - OTHER	2																					2
040.89	STREPTOCOCCAL TOXIC SHOCK	1																					1
013	TUBERCULOSIS - NON-RESP.	1																					1
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	7			3							1						3					14
B96.8	VANCOMYCIN RES. ENTER.	4			2				1		1												8
		211	11	6	8		14	7	12	2	23	1	7	12	6	1	19	100	14			2	456

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

## STD Infection Summary Report - June 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	551	527	3474	3367
All Gonorrhea Infections (including PRNG)	127	73	772	597
All Syphilis Infections	2	5	19	24
Gonorrhea & Chlamydia Co-infections	64	25	352	247
HIV	5	8	45	54

## Total Number of STD Cases by Age and Gender - June 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	F	M		
Chlamydia Only Cases							8	1	124	31	118	68	38	28	37	23	11	8	4	3								502
Gonorrhea Only Cases									7	2	13	2	5	7	3	2	1	3		3								48
Syphilis Only Cases													1	1	1				1		1							5
GC and CT Cases									5	2	3	4	4	1	2	2		1		1								25
							8	1	136	35	134	74	47	37	43	28	12	12	4	8		1						580
HIV												1			1	2		3		1								8

## Regional STD Distribution - June 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	278	24	5	16	1	7	4	18	1	26		18	5	14	5	19	62	17		7		527
All Gonorrhea Infections	41	1				1	1	4		3			1		2	1	15	1		1	1	73
All Syphilis Infections	4									1												5
GC and CT Infections	10					1		1		1			1		1		9			1		25

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

## Manitoba Monthly Communicable Disease Report

Reported up to July 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (C.difficile) accounted for 66% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during July 2009.

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

There were 513 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in July 2009:

- 433 reported cases of chlamydia (Ct) only
- 40 reported cases of gonorrhoea (GC) only
- 34 reported co-infections of Ct and GC
- 6 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 42% of all reported chlamydia cases in the province.

In July 2009, there were no cases of Hepatitis B virus (HBV); 29 cases of Hepatitis C virus (HCV); and 14 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The numbers of reported cases within July 2009 were within the statistically expected range for these reported communicable diseases.

The expected number of cases and range is statistically based on the average number of reported cases during June, July and August, 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 July 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	1		3	0-7	23	24
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS			0	0-1	1	2
320.1	BAC. MENINGITIS - PNEUM		1	0	0-1	1	3
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	11	16		***	69	95
116.0	BLASTOMYCOSIS		1		***	7	4
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			1	0-3		2
008.43	CAMPYLOBACTER	24	25	28	18-38	118	127
558.2	CLOSTRIDIUM DIFFICILE	69	70		***	509	508
046.1	CREUTZFELD-JACOB DISEASE				***	1	2
007.8	CRYPTOSPORIDIOSIS	4	2	6	0-22	11	11
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	1		0	0-1	4	1
032	DIPHTHERIA CASES			0	0-1	1	
123.4	DIPHYLLOBOTHRIUM SPP			1	0-4	1	1
008.0	E. COLI-VEROTOXIGENIC	4	2	12	0-37	21	18
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	18	7	15	6-24	81	63
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)	1			***	8	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1	1	1	0-4	7	10
070.3	HEPATITIS B			0	0-1	2	1
070.51	HEPATITIS C	29	29	28	17-39	220	217
487.1A	INFLUENZA A (NON-NOVEL H1N1)		1****		***	78	90
487.1B	INFLUENZA B				***	44	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	2
088.81	LYME DISEASE	3		1	0-4	3	
084	MALARIA	1		1	0-5	6	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	226	236	157	23-291	1221	1344
072.9	MUMPS			1	0-3		5
036.89	N.MENINGITIDIS OTHER			0	0-1		4
728.86	NECROTIZING FASCIITIS	1		2	0-6	8	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	6	1	3	0-8	14	18
038.2	PNEUM. SEPTICEMIA	6	5	7	1-13	72	71
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 62 for July 2009.

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			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	1	1	0-3	2	4
003.0	SALMONELLA	20	22	17	8-26	159	143
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	1	2	1	0-3	13	16
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	1
481.9	STREP PNEUMONIA - PR	1		0	0-1	1	
041.1	STREP PYOGENES - OTHER STER	1	17		***	21	55
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		1
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	2	
127.2	STRONGYLOIDES		1	0	0-1	3	5
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	2	3	2	0-4	11	13
010	TUBERCULOSIS - PRIM.			1	0-3	3	6
011	TUBERCULOSIS - RESP	12	9	8	2-14	65	71
021.9	TULAREMIA			0	0-1	1	
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	12		***	43	44
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	1			***	1	
008.44	YERSINIA ENTEROCOLITICA		1	1	0-3	2	3
		<b>450</b>	<b>466</b>			<b>2870</b>	<b>3042</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 July 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		
320.1	BAC. MENINGITIS - PNEUM		1																										1
038.0	BETA STREP SEPTICEMIA							1									1	1	1	1	2	2	3	1		3			16
116.0	BLASTOMYCOSIS																1												1
008.43	CAMPYLOBACTER		1	2	1					1	2		1			1	4	1	4		2		1	2		1	1		25
558.2	CLOSTRIDIUM DIFFICILE									1	1	1	1			3		3	1	3	5	7	5	7	13	9	10		70
007.8	CRYPTOSPORIDIOSIS									1	1																		2
008.0	E. COLI 0157				1													1											2
007.1	GIARDIA LAMBLIA			1	1	1		1				1					1						1						7
070.1	HEPATITIS A																									1			1
070.51	HEPATITIS C									1			3	1	1	1	7	2	6	2	3	1	1						29
487.1A	INFLUENZA A (NON-NOVEL H1N1)													1															1
027.0	LISTERIA MONOCYTOGENES																				1								1
B95.6	MRSA	2	4	10	17	10	12	8	9	6	7	7	9	9	12	11	14	5	11	10	7	11	12	6	6	10	11		236
033.0	PERTUSSIS		1																										1
038.2	PNEUM. SEPTICEMIA	2										1								1				1					5
003.0	SALMONELLA		1	1			1	1			4	2					2	2	1		2	1	1	1	1		1		22
004	SHIGELLOSIS															1				1									2
041.1	STREP PYOGENES - OTHER ST				1					2		1				1	2	1		2	4		1	2					17
041.2	STREP.PNEUM.OTHER															1													1
127.2	STRONGYLOIDIASIS															1													1
013	TUBERCULOSIS - NON-RESP.											2							1										3
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP	1					1	1								3	1			1	1								9
B96.8	VANCOMYCIN RES. ENTER.															1	2			1	1		3	1	1	2			12
008.44	YERSINIA ENTEROCOLITICA																		1										1
		5	8	14	20	12	14	10	11	8	17	12	18	12	13	24	29	19	26	20	28	25	23	23	25	22	28		466

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR July 2009

ICD9	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				
320.1	BAC. MENINGITIS - PNEUM	1																					1
038.0	BETA STREP SEPTICEMIA	9								2		1				1	1	1				1	16
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	9	2		1		5	2	1			2		3									25
558.2	CLOSTRIDIUM DIFFICILE	41	4		3		3	1	4		3		6		4		1						70
007.8	CRYPTOSPORIDIOSIS		2																				2
008.0	E. COLI 0157	2																					2
007.1	GIARDIA LAMBLIA	3								4													7
070.1	HEPATITIS A								1														1
070.51	HEPATITIS C	17	2					3	1		1	1	1		1							1	29
487.1A	INFLUENZA A (NON-NOVEL H1N1)						1																1
027.0	LISTERIA MONOCYTOGENES	1																					1
B95.6	MRSA	82	4	5	3		4	3	8		9	1	3	2	6	1	5	83	16	1			236
033.0	PERTUSSIS	1																					1
038.2	PNEUM. SEPTICEMIA	2								1								2					5
003.0	SALMONELLA	9		1					1			1	1	5	3			1					22
004	SHIGELLOSIS	2																					2
041.1	STREP PYOGENES - OTHER	12		1					2		1			1									17
041.2	STREP.PNEUM.OTHER									1													1
127.2	STRONGYLOIDIASIS	1																					1
013	TUBERCULOSIS - NON-RESP.	3																					3
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	4		2														2	1				9
B96.8	VANCOMYCIN RES. ENTER.	5					1	1	2				2					1					12
008.44	YERSINIA ENTEROCOLITICA	1																					1
		206	14	9	7		14	10	20		22	3	16	7	18	1	8	90	18	1		2	466

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

## STD Infection Summary Report - July 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	586	467	4060	3833
All Gonorrhea Infections (including PRNG)	109	74	881	670
All Syphilis Infections	8	6	27	30
Gonorrhea & Chlamydia Co-infections	44	34	396	281
HIV	10	14	55	68

## Total Number of STD Cases by Age and Gender - July 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	F	M		
Chlamydia Only Cases							3		89	35	94	55	32	40	42	22	7	11	2	1								433
Gonorrhea Only Cases									7	3	8	9		5	1	1	1	3		1		1						40
Syphilis Only Cases												1		1		2		2										6
GC and CT Cases							1		7	4	6	2	4	1	3	4		1		1								34
							4		103	42	108	67	36	47	46	29	8	17	2	3		1						513
HIV													1	1	4	3	2	1		1								14

## Regional STD Distribution - July 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	251	20	6	3		10	6	14		26		18	7	12	3	18	40	26		7		467
All Gonorrhea Infections	42		2				1			2					1	1	14	8		2	1	74
All Syphilis Infections	5							1														6
GC and CT Infections	16						1			1					1	9	5		1			34

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

## Manitoba Monthly Communicable Disease Report

Reported up to August 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 66% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during August 2009.

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

There were 517 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in August 2009:

- 431 reported cases of chlamydia (Ct) only
- 47 reported cases of gonorrhoea (GC) only
- 36 reported co-infections of Ct and GC and
- 3 reported cases of syphilis

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

In August 2009, there were no cases of Hepatitis B virus (HBV), 27 cases of Hepatitis C virus (HCV) and 11 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- *Bacillus Cereus* – 3 positive lab confirmed cases reported; less than 2 expected in an average month.
- *Streptococcus Pneumoniae*, Other Site – 4 positive lab confirmed cases reported; less than 2 expected in an average month.
- *Salmonella* – 27 positive lab confirmed cases reported; less than 25 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during July, August and September, 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 August 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	2	2	2	0-4	25	26
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS		3	0	0-1	1	5
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	3
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	17	17		***	86	112
116.0	BLASTOMYCOSIS	1			***	8	4
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			1	0-3		2
008.43	CAMPYLOBACTER	26	23	28	18-38	144	151
558.2	CLOSTRIDIUM DIFFICILE	73	53		***	582	561
046.1	CREUTZFELD-JACOB DISEASE				***	1	2
007.8	CRYPTOSPORIDIOSIS	23	5	9	0-26	33	16
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	4	1
032	DIPHTheria CASES			0	0-1	1	
123.4	DIPHYLLOBOTRIUM SPP	4		1	0-4	5	1
008.0	E. COLI-VEROTOXIGENIC	2	10	11	0-37	23	28
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	13	13	15	6-24	94	75
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)		1	0	0-1	1	3
041.59	HAEM. INFLUENZAE (non-B)	1			***	9	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A			1	0-4	7	10
070.3	HEPATITIS B			1	0-3	2	3
070.51	HEPATITIS C	23	27	29	19-39	243	245
487.1A	INFLUENZA A****				***	78	88
487.1B	INFLUENZA B				***	44	38
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	2		0	0-1	4	2
088.81	LYME DISEASE	2		1	0-3	5	
084	MALARIA	1		1	0-3	7	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-0	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	310	303	176	32-320	1531	1648
072.9	MUMPS			1	0-3		5
036.89	N.MENINGITIDIS OTHER		1	0	0-1		5
728.86	NECROTIZING FASCIITIS	4		1	0-4	12	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS		5	3	0-8	14	23
038.2	PNEUM. SEPTICEMIA	8	3	6	0-12	80	74
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 excludes novel H1N1. There were 10 cases of novel H1N1 in August 2009.

2009-09-28



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			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		4	0	0-1	2	8
003.0	SALMONELLA	18	27	16	8-24	177	171
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	4		1	0-4	17	16
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-1	1	
041.1	STREP PYOGENES - OTHER STER	3	11		***	24	66
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		1
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	2	
127.2	STRONGYLOIDES			0	0-1	3	5
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-0		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	2	6	2	0-6	13	20
010	TUBERCULOSIS - PRIM.	1	2	1	0-3	4	8
011	TUBERCULOSIS - RESP	10	14	8	2-14	75	85
021.9	TULAREMIA			0	0-1	1	
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	7	10		***	50	54
005.4	VIBRIO PARAHAEEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROME	1			***	2	
008.44	YERSINIA ENTEROCOLITICA	3		2	0-5	5	3
		<b>561</b>	<b>540</b>			<b>3430</b>	<b>3585</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 August 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
005.8	B. CEREUS			1															2										3
038.0	BETA STREP SEPTICEMIA	2										1		1	1		1	3			1	2	1		2	2			17
008.43	CAMPYLOBACTER			5	2	1				1	1	2			1	1	3		1		2		2				1		23
558.2	CLOSTRIDIUM DIFFICILE							1						1		3			6	2	4	5	5	9	3	7	7		53
007.8	CRYPTOSPORIDIOSIS			1					1				1	2															5
008.0	E. COLI 0157			3	1					1	1			1		1	1							1					10
007.1	GIARDIA LAMBLIA	1		2					2	1					1		1	1	1			2	1						13
041.5	H.INFLUENZAE (OTHER STER	1																											1
070.51	HEPATITIS C	1											1	1		2	5	3	4	4	4	1					1		27
B95.6	MRSA	10	2	22	16	20	9	11	9	10	8	12	15	12	10	13	18	15	15	11	11	10	10	11	8	7	8		303
036.89	NEISSERIA MGTS(other)										1																		1
033.0	PERTUSSIS	1	2													1											1		5
038.2	PNEUM. SEPTICEMIA													1				1				1							3
003.0	SALMONELLA			1	2	1			1				2	2	2	2	2		2	1	3		2	1	2		1		27
041.1	STREP PYOGENES - OTHER ST									1	1	1	1			1		1	1		2		2						11
041.2	STREP.PNEUM.OTHER			1	1											1				1									4
013	TUBERCULOSIS - NON-RESP.												1		1	1		1	1					1					6
010	TUBERCULOSIS - PRIM.			1		1																							2
011	TUBERCULOSIS - RESP									1	2	1		1		2	1		1		3	1					1		14
B96.8	VANCOMYCIN RES. ENTER.																	1		1	2	1		1	1	1	2		10
		16	4	37	22	23	9	12	13	16	14	17	21	22	16	27	33	26	33	21	33	22	24	23	17	17	21		540

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR August 2009

ICD9	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				
006.9	AMEBIASIS	2																					2
005.8	B. CEREUS	1					1							1									3
038.0	BETA STREP SEPTICEMIA	12			1									1		2		1					17
008.43	CAMPYLOBACTER	6					5		3		3		3	2		1							23
558.2	CLOSTRIDIUM DIFFICILE	30	3		1		1		2		4	1	6			2		2			1		53
007.8	CRYPTOSPORIDIOSIS						1		1		1		1			1							5
008.0	E. COLI 0157	7									2		1										10
007.1	GIARDIA LAMBLIA	6					1		1		2		1			1				1			13
041.5	H.INFLUENZAE (OTHER STE																	1					1
070.51	HEPATITIS C	22									3		1		1								27
B95.6	MRSA	97	4	9	1		6	3	6		8		6	1	6	3	11	126	15		1		303
036.89	NEISSERIA MGTS(Other)	1																					1
033.0	PERTUSSIS	2		1							1								1				5
038.2	PNEUM. SEPTICEMIA	1		1														1					3
003.0	SALMONELLA	10	2				4		1		5			2				2	1				27
041.1	STREP PYOGENES - OTHER	6			1								1			2				1			11
041.2	STREP.PNEUM.OTHER	1									1							2					4
013	TUBERCULOSIS - NON-RESP.	5																1					6
010	TUBERCULOSIS - PRIM.																	2					2
011	TUBERCULOSIS - RESP	5	1	1								1				1		5					14
B96.8	VANCOMYCIN RES. ENTER.	7			1				2														10
		221	10	12	5		19	3	16		30	2	20	3	11	3	21	140	20	2	2		540

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

## STD Infection Summary Report - August 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	537	467	4597	4301
All Gonorrhea Infections (including PRNG)	102	83	983	753
All Syphilis Infections	4	3	31	33
Gonorrhea & Chlamydia Co-infections	40	36	436	317
HIV	7	11	62	78

## Total Number of STD Cases by Age and Gender - August 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	F	M		
Chlamydia Only Cases							4		110	43	88	52	36	34	24	19	8	10	1	2								431
Gonorrhea Only Cases			1						7	2	7	9	6	5	4	1		2	1		1	1						47
Syphilis Only Cases																		3										3
GC and CT Cases							4		7	2	7	5		2	4	5												36
			1				8		124	47	102	66	42	41	32	25	8	15	2	2	1	1						517
HIV														1		2	1	3		2	1		1					11

## Regional STD Distribution - August 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	225	24	20	8		10	7	12		23		15	2	6	4	34	43	27	2	5		467
All Gonorrhea Infections	33	1	4	2			1	2		2		1			3	13	12	9				83
All Syphilis Infections	1	1																			1	3
GC and CT Infections	10	1	1	2				1		1		1			1	7	4	7				36

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

## Manitoba Monthly Communicable Disease Report

Reported up to September 30, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 69% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during September 2009.

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

There were 635 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in September 2009:

- 545 reported cases of chlamydia (Ct) only
- 54 reported cases of gonorrhoea (GC) only
- 34 reported co-infections of Ct and GC and
- 2 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 48% of all reported chlamydia cases in the province.

In September 2009, there were no cases of Hepatitis B virus (HBV), 23 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 September 2009 was within the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Amebiasis – 7 positive lab confirmed cases reported; less than 5 expected in an average month.
- Strongyloides – 3 positive lab confirmed cases reported; less than 3 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during August, September, and October, 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 September 2009

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	1	7	2	0-4	26	33
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS			0	0-1	1	5
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	2	3
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	18	6		***	104	119
116.0	BLASTOMYCOSIS	2	1		***	10	5
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			1	0-3		2
008.43	CAMPYLOBACTER	33	27	27	16-38	177	179
558.2	CLOSTRIDIUM DIFFICILE	68	58		***	650	620
046.1	CREUTZFELD-JACOB DISEASE				***	1	2
007.8	CRYPTOSPORIDIOSIS	22	13	9	0-27	55	29
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	1		0	0-1	5	1
032	DIPHTHERIA CASES			0	0-0	1	
123.4	DIPHYLLOBOTRIUM SPP			1	0-4	5	1
008.0	E. COLI-VEROTOXIGENIC	4	5	11	0-37	27	34
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	12	14	13	4-22	106	91
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)	1		0	0-1	2	3
041.59	HAEM. INFLUENZAE (non-B)				***	9	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	1		1	0-3	8	10
070.3	HEPATITIS B	2		1	0-3	4	3
070.51	HEPATITIS C	27	23	31	20-42	270	268
487.1A	INFLUENZA A****				***	78	88
487.1B	INFLUENZA B				***	44	38
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	1		1	0-2	5	2
088.81	LYME DISEASE			1	0-3	5	
084	MALARIA	2		2	0-4	9	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	283	328	183	30-336	1814	1976
072.9	MUMPS	1		1	0-3	1	5
036.89	N.MENINGITIDIS OTHER		1	0	0-1		6
728.86	NECROTIZING FASCIITIS			1	0-4	12	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		2	0-6	15	23
038.2	PNEUM. SEPTICEMIA	4	11	7	0-16	84	86
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 excludes novel H1N1. There were 3 cases of novel H1N1 in September 2009.

2009-10-28

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			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		1	0	0-2	2	9
003.0	SALMONELLA	12	23	15	6-24	189	196
120	SCHISTOSOMIASIS		1	0	0-1		1
004	SHIGELLOSIS	3	2	2	0-6	20	18
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-1	1	
041.1	STREP PYOGENES - OTHER STER	4	13		***	28	79
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	0-0	2	
127.2	STRONGYLOIDES	2	3	1	0-2	5	8
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	3	1	2	0-6	16	21
010	TUBERCULOSIS - PRIM.		1	1	0-3	4	9
011	TUBERCULOSIS - RESP	8	14	8	0-16	83	100
021.9	TULAREMIA		1	0	0-1	1	1
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	6	6		***	56	60
005.4	VIBRIO PARAHAEEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROME				***	2	
008.44	YERSINIA ENTEROCOLITICA	6	2	2	0-5	11	6
		<b>529</b>	<b>562</b>			<b>3959</b>	<b>4157</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 September 2009

		<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
ICD9	Disease Name	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	1	1							1									7
038.0	BETA STREP SEPTICEMIA	1																			1			1	3				6
116.0	BLASTOMYCOSIS																								1				1
008.43	CAMPYLOBACTER			3	3	1		1	2	2				2	1	3	1		1		3	1		2			1		27
558.2	CLOSTRIDIUM DIFFICILE				1		1		1				1	3		2	3	2	2	1	1	6	7	10	6	5	6		58
007.8	CRYPTOSPORIDIOSIS			2	1	1	1		2	2				2			1							1					13
008.0	E. COLI 0157							2				1		1						1									5
007.1	GIARDIA LAMBLIA			2	2				1	1		1	1		1		2		1				1			1			14
070.51	HEPATITIS C									1		1			1	3	2	2	6	1	2	1	1	1				1	23
B95.6	MRSA	8	13	17	26	12	12	11	7	11	11	13	11	7	8	17	17	11	8	8	17	12	18	10	11	16	16		328
036.89	NEISSERIA MGTS(Other)																	1											1
038.2	PNEUM. SEPTICEMIA		1			1	1										1		2		2		2		1				11
003.0	SALMONELLA			2	2		1	2	1		1		1			1	1	2	1		1	2	1		1	1	2		23
120	SCHISTOSOMIASIS						1																						1
004	SHIGELLOSIS						1									1													2
041.1	STREP PYOGENES - OTHER ST	1	1	1						1					1	1	1		2	1	1		1			1			13
041.2	STREP.PNEUM.OTHER											1																	1
127.2	STRONGYLOIDIASIS															2	1												3
013	TUBERCULOSIS - NON-RESP.																	1											1
010	TUBERCULOSIS - PRIM.		1																										1
011	TUBERCULOSIS - RESP									1	1			1		3	2	1	3	1	1								14
021.9	TULAREMIA																			1									1
B96.8	VANCOMYCIN RES. ENTER.															1			1	2	1		1						6
008.44	YERSINIA ENTEROCOLITICA													1				1											2
		10	16	27	35	16	19	16	14	19	15	18	15	17	12	34	32	19	28	14	32	23	32	25	20	28	25		562

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR September 2009

ICD9	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				
006.9	AMEBIASIS	5					2																7
038.0	BETA STREP SEPTICEMIA	2	1				1		2														6
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	10					3		3		3		5		3								27
558.2	CLOSTRIDIUM DIFFICILE	27	5				1		5		5		8		2		2		3				58
007.8	CRYPTOSPORIDIOSIS	1					1		1		2		5		3								13
008.0	E. COLI 0157	3											1		1								5
007.1	GIARDIA LAMBLIA	7									4		2		1								14
070.51	HEPATITIS C	13	4		2		3								1								23
B95.6	MRSA	106	5	20	3		6	2	8		9		3	3	10	3	6	136	7		1		328
036.89	NEISSERIA MGTS(Other)								1														1
038.2	PNEUM. SEPTICEMIA	5									1		1				1	2	1				11
003.0	SALMONELLA	4	1	1	3		1		2		3			1	5			2					23
120	SCHISTOSOMIASIS	1																					1
004	SHIGELLOSIS	1					1																2
041.1	STREP PYOGENES - OTHER	8			2		1												2				13
041.2	STREP.PNEUM.OTHER																	1					1
127.2	STRONGYLOIDIASIS	2					1																3
013	TUBERCULOSIS - NON-RESP.																	1					1
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP	9		1														2	2				14
021.9	TULAREMIA	1																					1
B96.8	VANCOMYCIN RES. ENTER.	5			1																		6
008.44	YERSINIA ENTEROCOLITICA								1		1												2
		211	16	22	11		21	2	23		28		25	4	26	3	9	145	15		1		562

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

## STD Infection Summary Report - September 2009

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	624	579	5221	4881
All Gonorrhea Infections (including PRNG)	108	88	1091	841
All Syphilis Infections	14	2	45	35
Gonorrhea & Chlamydia Co-infections	48	34	484	351
HIV	11	5	72	83

## Total Number of STD Cases by Age and Gender - September 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	F	M		
Chlamydia Only Cases					2		12		147	51	113	66	54	32	38	17	8	4							1			545
Gonorrhea Only Cases									7	5	14	7	4	5	4	3		3		1		1						54
Syphilis Only Cases																							1	1				2
GC and CT Cases									3	5	11	2	3	5	1	4												34
					2		12		157	61	138	75	61	42	43	24	8	7		1		1		1	2			635
HIV														2			1	2										5

## Regional STD Distribution - September 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	271	28	13	15		12	13	17		34		25	4	22	3	27	55	32	2	5	1	579
All Gonorrhea Infections	39	5	3				3	1		7		1		2	3	4	11	5	1	2	1	88
All Syphilis Infections	2																					2
GC and CT Infections	9	2	1							4		1		2	2	2	7	2	1	1		34

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

## Manitoba Monthly Communicable Disease Report

Reported up to October 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 65% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during October 2009.

- The number of reported cases of MRSA was outside the statistically expected range in October 2009 – 300 positive lab-confirmed cases reported; less than 299 expected in an average month.

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

There were 609 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in October 2009:

- 522 reported cases of chlamydia (Ct) only
- 54 reported cases of gonorrhoea (GC) only
- 28 reported co-infections of Ct and GC and
- 5 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 October 2009, there were no cases of Hepatitis B virus (HBV), 29 cases of Hepatitis C virus (HCV) and 11 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

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

- Amebiasis – 5 positive lab-confirmed cases reported; less than 5 expected in an average month.
- Neisseria Meningitidis (other) – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Salmonella – 26 positive lab-confirmed cases reported; less than 23 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during September, October, and November, 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 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.

# SUMMARY OF COMMUNICABLE DISEASE FOR OCTOBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	3	5	2	0-4	29	38
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS			0	0-1	1	5
320.1	BAC. MENINGITIS - PNEUM		1	0	0-1	2	4
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	15	13		***	119	132
116.0	BLASTOMYCOSIS	6	3		***	16	8
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		1
005.2	C. PERFRINGENS		1	1	0-2		3
008.43	CAMPYLOBACTER	26	32	22	7-37	203	213
558.2	CLOSTRIDIUM DIFFICILE	83	77		***	733	700
046.1	CREUTZFELD-JACOB DISEASE		1		***	1	3
007.8	CRYPTOSPORIDIOSIS	11	4	5	0-17	66	33
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	5	1
032	DIPHTHERIA CASES			0	0-1	1	
123.4	DIPHYLLOBOTRIUM SPP		3	1	0-3	5	4
008.0	E. COLI-VEROTOXIGENIC	5	4	6	0-21	32	38
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	10	17	11	2-20	116	109
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)	1		0	0-1	3	3
041.59	HAEM. INFLUENZAE (non-B)	3			***	12	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	2		1	0-3	10	10
070.3	HEPATITIS B			0	0-1	4	3
070.51	HEPATITIS C	20	29	33	22-44	290	297
487.1A	INFLUENZA A (NON-pH1N1)****		4		***	78	93
487.1B	INFLUENZA B				***	44	38
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	5	2
88.81	LYME DISEASE			0	0-0	5	
084	MALARIA	1	1	1	0-3	10	8
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-0	2	
B95.6	MRSA	273	300	171	44-298	2087	2275
072.9	MUMPS			0	0-1	1	5
036.89	N.MENINGITIDIS OTHER		1	0	0-0		7
728.86	NECROTIZING FASCIITIS	4		1	0-3	16	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS		2		***		2
033.0	PERTUSSIS		2	2	0-9	15	25
038.2	PNEUM. SEPTICEMIA	14	12	7	0-16	98	98
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 Influenza A Pandemic H1N1 (pH1N1). There were 280 cases of pH1N1 in October 2009.

# SUMMARY OF COMMUNICABLE DISEASE FOR OCTOBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER			0	0-0	1	1
056.9	RUBELLA			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		1	1	0-3	2	10
003.0	SALMONELLA	22	26	13	4-22	211	224
120	SCHISTOSOMIASIS			0	0-1		1
004	SHIGELLOSIS	8	1	2	0-6	28	19
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-1	1	
041.1	STREP PYOGENES - OTHER STERILE	8	12		***	36	91
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	0-0	2	
127.2	STRONGYLOIDES		2	1	0-2	5	10
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	2	2	2	0-4	18	23
010	TUBERCULOSIS - PRIM.	1		1	0-3	5	9
011	TUBERCULOSIS - RESP	11	7	7	0-15	94	107
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	10	17		***	66	77
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 SYNDROMES				***	2	
008.44	YERSINIA ENTEROCOLITICA	2	1	1	0-4	13	7
		<b>541</b>	<b>581</b>			<b>4500</b>	<b>4746</b>

- \* 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 Influenza A Pandemic H1N1 (pH1N1). There were 280 cases of pH1N1 in October 2009.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR OCTOBER 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/Gender	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								1		1			1										5
320.1	BAC. MENINGITIS - PNEUM		1																										1
038.0	BETA STREP SEPTICEMIA		1														2	2		1	3		1		3				13
116.0	BLASTOMYCOSIS															1			1	1									3
005.2	C. PERFRINGENS																			1									1
008.43	CAMPYLOBACTER		2	1	2	1	2	1	2	1	2		2		2	1	1	1		3	2	1	1	1		2	1		32
558.2	CLOSTRIDIUM DIFFICILE				1							2		2	1	4		2	3	4	4	6	10	9	5	15	9		77
046.1	CREUTZFELD JACOB DISEASE																					1							1
007.8	CRYPTOSPORIDIOSIS				2								2																4
123.4	DIPHYLLOBOTHRIUM				1											1				1									3
008.0	E. COLI 0157			1	1																			2					4
007.1	GIARDIA LAMBLIA			2	3			1	1			1		1	1		1		2	1		2	1						17
070.51	HEPATITIS C													3	5	5	3	6	2	3		1					1		29
487.1A	INFLUENZA A (NON-pH1N1)					1		1		1			1																4
084	MALARIA	1																											1
B95.6	MRSA	2	3	17	18	12	11	13	12	11	11	6	7	12	9	13	18	16	17	7	16	6	8	7	14	17	17		300
036.89	NEISSERIA MGTS(Other)										1																		1
033.1	PARAPERTUSSIS		2																										2
033.0	PERTUSSIS	2																											2
038.2	PNEUM. SEPTICEMIA		1	1			1	1		1			1					2	1		2	1							12
003.0	SALMONELLA	1	1			1	3	1		2			1	1	1	2	1	2	2		2	3		2					26
004	SHIGELLOSIS																			1									1
041.1	STREP PYOGENES - OTHER ST							1		2	1			2	3		1			2									12
041.2	STREP.PNEUM.OTHER	1																											1
127.2	STRONGYLOIDIASIS																			1	1								2
013	TUBERCULOSIS - NON-RESP.																			1	1								2
011	TUBERCULOSIS - RESP													1	1	1				1	2				1				7
B96.8	VANCOMYCIN RES. ENTER.								1								1			2		1	1	1	4	2	4		17
008.44	YERSINIA ENTEROCOLITICA											1																	1
		7	11	22	29	16	17	19	15	19	15	10	12	20	22	26	32	26	34	25	37	25	24	21	26	39	31		581



## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR OCTOBER 2009

ICD9	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						
006.9	AMEBIASIS	2	3																5		
320.1	BAC. MENINGITIS - PNEUM														1				1		
038.0	BETA STREP SEPTICEMIA	7	1		1				2						1	1			13		
116.0	BLASTOMYCOSIS	2															1		3		
005.2	C. PERFRINGENS		1																1		
008.43	CAMPYLOBACTER	14	1			3	1	6		3	1	2				1			32		
558.2	CLOSTRIDIUM DIFFICILE	49	4		3			3	8	5		2		1		1		1	77		
046.1	CREUTZFELD JACOB DISEASE	1																	1		
007.8	CRYPTOSPORIDIOSIS						2	1					1						4		
123.4	DIPHYLLOBOTHRIUM	1			1		1												3		
008.0	E. COLI 0157	1				1				1		1							4		
007.1	GIARDIA LAMBLIA	6		1		3			2			4		1					17		
070.51	HEPATITIS C	19	2		5			1		1		1							29		
487.1A	INFLUENZA A (NON-pH1N1)	3				1													4		
084	MALARIA	1																	1		
B95.6	MRSA	111	10	10	2		6	1	8	3		2		6	3	7	122	7	2	300	
036.89	NEISSERIA MGTS(Other)						1												1		
033.1	PARAPERTUSSIS	1											1						2		
033.0	PERTUSSIS	2																	2		
038.2	PNEUM. SEPTICEMIA	7							2							2	1		12		
003.0	SALMONELLA	15	1					4	1			3		1		1			26		
004	SHIGELLOSIS	1																	1		
041.1	STREP PYOGENES - OTHER ST	6		1	2											2	1		12		
041.2	STREP.PNEUM.OTHER	1																	1		
127.2	STRONGYLOIDIASIS	2																	2		
013	TUBERCULOSIS - NON-RESP.	1														1			2		
011	TUBERCULOSIS - RESP	5					1									1			7		
B96.8	VANCOMYCIN RES. ENTER.	14								2				1					17		
008.44	YERSINIA ENTEROCOLITICA	1																	1		
		273	23	12	14		19	5	28		22	1	15		12	3	10	131	10	3	581

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

**STD Infection Summary Report - October 2009**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	656	550	5877	5433
All Gonorrhea Infections (including PRNG)	107	82	1198	924
All Syphilis Infections	9	5	54	40
Gonorrhea & Chlamydia Co-infections	51	28	535	380
HIV	5	11	77	94

**Total Number of STD Cases by Age and Gender - October 2009**

	<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	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	age/gender	TOTAL	
Chlamydia Only Cases							18	2	123	44	107	54	54	31	35	20	19	7	3	3				1				1	522
Gonorrhea Only Cases							2		6	5	14	8	3	4	2	4	3	2		1									54
Syphilis Only Cases													1		1		3												5
GC and CT Cases								2	8	4	7	3	2				2												28
HIV							20	4	137	53	128	65	59	36	37	25	22	14	3	4			1						609
									1		1		2	3	3		1												11

**Regional STD Distribution - October 2009**

Disease/Infection	Winnipeg		Brandon		N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>					F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
All Chlamydia Infections	283		27		11	9		12	6	16	1	32		16	4	9	7	22	53	39		1	2	550
All Gonorrhea Infections	37		5		3				1	2	1	3		2		1	2	2	14	8		1		82
All Syphilis Infections	3		1		1																			5
GC and CT Infections	8		1		1					1	1	2		1		1	1	1	6	4				28

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

## Manitoba Monthly Communicable Disease Report

Reported up to November 30, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 74% of all non-STI/HIV related communicable diseases reported to Manitoba Health during November 2009.

- The number of reported cases of MRSA was above the statistically expected range in November 2009 – 277 positive lab-confirmed cases reported; less than 272 expected in an average month.

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

There were 541 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in November 2009:

- 470 reported cases of chlamydia (Ct) only
- 33 reported cases of gonorrhoea (GC) only
- 33 reported co-infections of Ct and GC and
- 5 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 40% of all reported chlamydia cases in the province.

In November 2009, there were no cases of Hepatitis B virus (HBV), 16 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 November 2009 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Diphtheria Carrier – 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Pneumococcal Septicemia – 18 positive lab-confirmed cases reported; less than 17 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during October, November, and December, 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 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.

# SUMMARY OF COMMUNICABLE DISEASE FOR NOVEMBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	3	1	3	0-7	32	38
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-1	1	5
320.1	BAC. MENINGITIS - PNEUM			0	0-1	2	4
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	10	8		***	129	140
116.0	BLASTOMYCOSIS	1			***	17	7
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS	1		1	0-2	1	3
008.43	CAMPYLOBACTER	11	9	18	5-31	215	222
558.2	CLOSTRIDIUM DIFFICILE	80	65		***	813	766
046.1	CREUTZFELD-JACOB DISEASE				***	1	3
007.8	CRYPTOSPORIDIOSIS	4	1	3	0-9	70	36
061.0	DENGUE FEVER			0	0-0	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		2	0	0-1	5	3
032	DIPHTHERIA CASES			0	0-1	1	
123.4	DIPHYLLOBOTHRUM SPP	1		1	0-2	6	4
008.0	E. COLI-VEROTOXIGENIC	3	3	4	0-18	35	41
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	4	11	9	2-16	120	122
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	3	3
041.59	HAEM. INFLUENZAE (non-B)	4			***	16	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A			1	0-2	10	11
070.3	HEPATITIS B			0	0-1	4	4
070.51	HEPATITIS C	25	16	31	18-44	315	312
487.1A	INFLUENZA A (NON-pH1N1)****		6		***	78	156
487.1B	INFLUENZA B				***	44	38
482.83	LEGIONELLA	1		0	0-1	1	
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	5	2
88.81	LYME DISEASE			0	0-1	5	1
084	MALARIA	1	3	1	0-3	11	11
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	2	
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1	2	
B95.6	MRSA	193	277	159	47-271	2280	2552
072.9	MUMPS	1		0	0-1	2	5
036.89	N.MENINGITIDIS OTHER			0	0-0		7
728.86	NECROTIZING FASCIITIS	1		2	0-5	17	3
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		2
033.0	PERTUSSIS	1	4	3	0-11	16	29
038.2	PNEUM. SEPTICEMIA	9	18	8	0-16	107	117
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 Influenza A Pandemic H1N1 (pH1N1). There were 1436 cases of pH1N1 in November 2009.

# SUMMARY OF COMMUNICABLE DISEASE FOR NOVEMBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER			0	0-0	1	1
056.9	RUBELLA			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1		1	0-3	3	10
003.0	SALMONELLA	13	13	13	2-24	224	244
120	SCHISTOSOMIASIS			0	0-1		1
004	SHIGELLOSIS			1	0-5	28	19
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-1	1	
041.1	STREP PYOGENES - OTHER STERILE	7	3		***	43	94
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	2	
127.2	STRONGYLOIDES	1	1	1	0-5	6	11
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	3	2	0-4	20	27
010	TUBERCULOSIS - PRIM.	1		1	0-3	6	9
011	TUBERCULOSIS - RESP	3	9	7	1-13	97	116
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0	1	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	14	11		***	80	88
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 SYNDROMES				***	2	
008.44	YERSINIA ENTEROCOLITICA	1	1	1	0-2	14	8
		<b>397</b>	<b>465</b>			<b>4898</b>	<b>5283</b>

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR NOVEMBER 2009

		<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/Gender	Total
ICD9	Disease Name	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
038.0	BETA STREP SEPTICEMIA								1											1	1	1	3				1		8
008.43	CAMPYLOBACTER							2			1		1					1	1			1	1		1				9
558.2	CLOSTRIDIUM DIFFICILE			1								1		3	1		2	2	1	6	2	3	5	6	8	14	10		65
007.8	CRYPTOSPORIDIOSIS									1																			1
V02.4	DIPH. CARRIERS															2													2
008	E. COLI 0157			1			1												1										3
007.1	GIARDIA LAMBLIA			2	2	1	1		1					1		2						1							11
070.51	HEPATITIS C									1						1	3	1	3		4	1			1			1	16
487.1A	INFLUENZA A (NON-pH1N1)											1		1	1	1				2									6
084	MALARIA										1	1						1											3
B95.6	MRSA	8	7	20	17	17	4	9	5	8	7	6	7	12	12	16	19	10	21	6	9	7	14	6	11	8	11		277
033.0	PERTUSSIS	1		2								1																	4
038.2	PNEUM. SEPTICEMIA		1		3					1			1			1	2	1	1	1	2	1	1		1		1		18
003.0	SALMONELLA		1		1	3						1		1				1	1	1	1	1				1			13
041.1	STREP PYOGENES - OTHER ST											1				1				1									3
127.2	STRONGYLOIDIASIS													1															1
013	TUBERCULOSIS - NON-RESP.															1		1		1									3
011	TUBERCULOSIS - RESP									1							1	1	2		1		1		2				9
B96.8	VANCOMYCIN RES. ENTER.																			1			3	1	3	3			11
008.44	YERSINIA ENTEROCOLITICA					1																							1
		9	9	26	23	22	6	11	7	12	10	11	9	19	15	23	29	18	32	15	25	15	26	15	25	26	26		465

## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR NOVEMBER 2009

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>				F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
006.9	AMEBIASIS	1																					1
038.0	BETA STREP SEPTICEMIA	5		1														2					8
008.43	CAMPYLOBACTER	5			1		1		1					1									9
558.2	CLOSTRIDIUM DIFFICILE	40	3		1		3		5		5		5		1			1			1		65
007.8	CRYPTOSPORIDIOSIS									1													1
V02.4	DIPH. CARRIERS																	2					2
008	E. COLI 0157	1					1			1													3
007.1	GIARDIA LAMBLIA	5			1		5																11
070.51	HEPATITIS C	8	1							3		2				1		1					16
487.1A	INFLUENZA A (NON-pH1N1)	3			1					2													6
084	MALARIA	3																					3
B95.6	MRSA	74	3	5	1		3	1	8	1	3	1	6	2	6	3	11	140	8		1		277
033.0	PERTUSSIS												4										4
038.2	PNEUM. SEPTICEMIA	7	1		3					1		1	1	1		1	3						18
003.0	SALMONELLA	6						1		2				1	1			2					13
041.1	STREP PYOGENES - OTHER ST	2																1					3
127.2	STRONGYLOIDIASIS	1																					1
013	TUBERCULOSIS - NON-RESP.	1								1								1					3
011	TUBERCULOSIS - RESP	7				1												1					9
B96.8	VANCOMYCIN RES. ENTER.	8						1	1	1													11
008.44	YERSINIA ENTEROCOLITICA	1																					1
		<b>178</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>1</b>	<b>13</b>	<b>3</b>	<b>15</b>	<b>1</b>	<b>20</b>	<b>1</b>	<b>18</b>	<b>3</b>	<b>9</b>	<b>4</b>	<b>13</b>	<b>151</b>	<b>11</b>		<b>2</b>		<b>465</b>

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



**STD Infection Summary Report - November 2009**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	555	503	6432	5939
All Gonorrhea Infections (including PRNG)	86	66	1285	990
All Syphilis Infections	4	5	57	45
Gonorrhea & Chlamydia Co-infections	40	33	575	413
HIV	8	5	85	99

**Total Number of STD Cases by Age and Gender - November 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/gender	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		
Chlamydia Only Cases	1						10	1	104	37	83	53	50	48	38	23	8	8	4	2								470
Gonorrhea Only Cases							1		4	1	8	7	1	3	1	2	1	1	1	2								33
Syphilis Only Cases											1					2									2			5
GC and CT Cases									10	2	4	4	3	3	3	1	2		1									33
HIV	1						11	1	118	40	96	64	54	54	39	30	10	11	5	5					2			541
									1				1				2	1										5

**Regional STD Distribution - November 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	256	28	7	4		12	9	13		29		15	2	9	8	19	62	28		2		503
All Gonorrhea Infections	30	1	4	3				1		2		1		1	3	4	11	5				66
All Syphilis Infections	4	1																				5
GC and CT Infections	14		1	1				1				1			1	3	8	3				33

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

## Manitoba Monthly Communicable Disease Report

Reported up to December 31, 2009

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 72% of all non-STI/HIV related communicable diseases reported to Manitoba Health during December 2009.

- The number of reported cases of MRSA was above the statistically expected range in December 2009 – 256 positive lab-confirmed cases reported; less than 220 expected in an average month.

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

There were 447 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in December 2009:

- 396 reported cases of chlamydia (Ct) only
- 35 reported cases of gonorrhoea (GC) only
- 13 reported co-infections of Ct and GC and
- 3 reported cases of syphilis

Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 45% of all reported chlamydia cases in the province.

In December 2009, there were no cases of Hepatitis B virus (HBV), 33 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 December 2009 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Malaria – 3 positive lab-confirmed cases reported; less than 3 expected in an average month.
- Shigellosis – 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 November ('04-'08), December ('04-'08), and January ('05-'09).

## **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.

# SUMMARY OF COMMUNICABLE DISEASE FOR DECEMBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
006.9	AMEBIASIS	3	2	3	0-6	35	40
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-1	1	5
320.1	BAC. MENINGITIS - PNEUM	1		1	0-2	3	4
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	9	16		***	138	156
116.0	BLASTOMYCOSIS	1	2		***	18	9
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			1	0-3	1	3
008.43	CAMPYLOBACTER	8	10	14	7-21	223	232
558.2	CLOSTRIDIUM DIFFICILE	77	78		***	890	844
046.1	CREUTZFELD-JACOB DISEASE				***	1	3
007.8	CRYPTOSPORIDIOSIS	3		2	0-6	73	36
061.0	DENGUE FEVER			0	0-1	1	
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	1		0	0-1	6	3
032	DIPHTHERIA CASES		1	0	0-1	1	1
123.4	DIPHYLLOBOTHRUM SPP	1	1	0	0-1	7	5
008.0	E. COLI-VEROTOXIGENIC	2	3	3	0-7	37	44
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	7	3	9	2-16	127	125
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	3	3
041.59	HAEM. INFLUENZAE (non-B)				***	16	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1		1	0-3	11	11
070.3	HEPATITIS B	1		0	0-1	5	4
070.51	HEPATITIS C	34	33	31	18-44	349	345
487.1A	INFLUENZA A (NON-pH1N1)****		1		***	78	155
487.1B	INFLUENZA B	1			***	45	38
482.83	LEGIONELLA			0	0-1	1	
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	5	2
88.81	LYME DISEASE			0	0-1	5	1
084	MALARIA	1	3	1	0-2	12	14
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF	1	1	0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD		1	0	0-1	2	1
B95.6	MRSA	222	256	124	29-219	2502	2808
072.9	MUMPS			0	0-1	2	5
036.89	N.MENINGITIDIS OTHER			0	0-0		7
728.86	NECROTIZING FASCIITIS		2	1	0-4	17	5
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		2
033.0	PERTUSSIS		1	5	0-13	16	30
038.2	PNEUM. SEPTICEMIA	5	5	7	2-12	112	122
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 Influenza A Pandemic H1N1 (pH1N1). There were 100 cases of pH1N1 in December 2009.

# SUMMARY OF COMMUNICABLE DISEASE FOR DECEMBER 2009

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2008	2009	Expected*	Ex. Range**	2008	2009
083.0	Q FEVER			0	0-0	1	1
056.9	RUBELLA			0	0-0		2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	2	1	0-3	4	12
003.0	SALMONELLA	13	22	14	0-29	237	266
120	SCHISTOSOMIASIS			0	0-1		1
004	SHIGELLOSIS	1	4	1	0-3	29	23
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	
481.9	STREP PNEUMONIA - PR			0	0-1	1	
041.1	STREP PYOGENES - OTHER STERILE	6	2		***	49	96
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK	1	1	0	0-1	1	1
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	2	
127.2	STRONGYLOIDES			1	0-5	6	11
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	4		2	0-4	23	27
010	TUBERCULOSIS - PRIM.	3		1	0-3	9	9
011	TUBERCULOSIS - RESP	11	9	6	0-12	109	120
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0	1	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	14	5		***	94	93
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 SYNDROMES				***	2	
008.44	YERSINIA ENTEROCOLITICA	2		0	0-1	16	8
		<b>435</b>	<b>464</b>			<b>5333</b>	<b>5740</b>

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR DECEMBER 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/Gend	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
036.0	BAC.MGTS-NMGTS(MGCCCL MGTS				1																								1
038.0	BETA STREP SEPTICEMIA	2			1							1				1		1	1	3		2	1			2			16
116.0	BLASTOMYCOSIS											1				1													2
008.43	CAMPYLOBACTER			2			1					1				1		1		1		1		2					10
558.2	CLOSTRIDIUM DIFFICILE			1								2				1	1	2	2	5	4	10	6	6	11	16	11		78
032	DIPH. CASES																	1											1
123.4	DIPHYLLOTHRIUM															1													1
008.0	E. COLI 0157				1															2									3
007.1	GIARDIA LAMBLIA				1									1		1													3
070.51	HEPATITIS C									1				3	2	2	3	3	7	2	6		1				3		33
487.1A	INFLUENZA A (NON-pH1N1)				1																								1
084	MALARIA									1		1			1														3
036.2	MENINGOCOCCEMIA(MGCCEMIA											1																	1
B95.6	MRSA	3	10	17	18	8	5	8	5	7	8	9	6	14	7	16	13	8	12	15	12	7	11	9	11	13	4		256
728.86	NECROTIZING FASCIITIS																	1		1									2
033.0	PERTUSSIS	1																											1
038.2	PNEUM. SEPTICEMIA			1										1			1			1				1					5
003.0	SALMONELLA				1	2				1	2	2			2	2	1		1	1	2	2		1	1	1			22
004	SHIGELLOSIS																1				1	1	1						4
041.1	STREP PYOGENES - OTHER ST															1								1					2
041.2	STREP.PNEUM.OTHER																			1	1								2
040.89	STREPTOCOCCAL TOXIC SHOCK																			1									1
011	TUBERCULOSIS - RESP													1	1		2		3	1			1						9
B96.8	VANCOMYCIN RES. ENTER.																			1				3		1			5
		6	10	21	24	10	6	8	5	10	10	18	6	20	13	26	23	17	28	29	31	21	23	19	29	30	21		464

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR DECEMBER 2009

ICD9	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				
006.9	AMEBIASIS	1												1									2
036.0	BAC.MGTS-NMGTS(MGCCL MGTS									1													1
038.0	BETA STREP SEPTICEMIA	12				2		1										1					16
116.0	BLASTOMYCOSIS	1								1													2
008.43	CAMPYLOBACTER	8								1		1											10
558.2	CLOSTRIDIUM DIFFICILE	56	4			2		5		5		1		3				1		1			78
032	DIPH. CASES	1																					1
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157	1	1			1																	3
007.1	GIARDIA LAMBLIA							1						1		1							3
070.51	HEPATITIS C	22	1		1			2		2		2		2				1					33
487.1A	INFLUENZA A (NON-pH1N1)	1																					1
084	MALARIA	3																					3
036.2	MENINGOCOCCEMIA(MGCCEMIA	1																					1
B95.6	MRSA	74	1	3	2		2		4	1	3		3	3	2		11	139	8				256
728.86	NECROTIZING FASCIITIS	1																			1		2
033.0	PERTUSSIS	1																					1
038.2	PNEUM. SEPTICEMIA	4	1																				5
003.0	SALMONELLA	10	1		2		3			1	1			1		1	2						22
004	SHIGELLOSIS	4																					4
041.1	STREP PYOGENES - OTHER ST	1								1													2
041.2	STREP.PNEUM.OTHER			1		1																	2
040.89	STREPTOCOCCAL TOXIC SHOCK																	1					1
011	TUBERCULOSIS - RESP	6																3					9
B96.8	VANCOMYCIN RES. ENTER.	3				1												1					5
		212	9	4	5		12	2	11	2	14	1	7	3	10		13	145	12		1	1	464

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

**STD Infection Summary Report - December 2009**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2008	2009	2008	2009
All Chlamydia Infections	537	409	6969	6348
All Gonorrhea Infections (including PRNG)	95	48	1380	1038
All Syphilis Infections	5	3	62	48
Gonorrhea & Chlamydia Co-infections	42	13	617	426
HIV	3	9	88	108

**Total Number of STD Cases by Age and Gender - December 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	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	age/gender	
Chlamydia Only Cases							8	2	96	32	82	52	38	27	26	19	2	4	2	5		1						396
Gonorrhea Only Cases									6	3	4	6	3	4	2	4	1	1		1								35
Syphilis Only Cases									1									1					1					3
GC and CT Cases									5	1	4			1	1			1										13
							8	2	108	36	90	58	41	32	29	23	3	7	2	6		1		1				447
HIV									1	1	1			1	1	1		3										9

**Regional STD Distribution - December 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	F	P	F	P	F	P	F	P	F	P	
All Chlamydia Infections	200		21		8	4		8	5	19		25		5	1	11	2	19	51	22		1		5		2	409
All Gonorrhea Infections	22				3	3		1	2	1		3				1			9	2							48
All Syphilis Infections	3																										3
GC and CT Infections	6				1			1	1							1		2	1								13

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