

## Manitoba Monthly Surveillance Unit Report

Reported up to January 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 36% of all non-STBBI related communicable diseases reported to Manitoba Health during January 2013.

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

There were 693 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2013:

- 561 reported cases of chlamydia (CT) only
- 69 reported cases of gonorrhoea (GC) only
- 55 reported co-infections of CT and GC and
- 8 reported cases of syphilis

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

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

In January 2013, there were no acute cases of Hepatitis B virus (HBV), 27 cases of Hepatitis C virus (HCV) and 12 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in January 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Necrotizing fasciitis: 5 positive lab-confirmed cases reported; less than 5 expected in an average month.
- Trypanosoma cruzi: 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Tuberculosis – Primary: 4 cases reported; less than 4 expected in an average month. The increased number of cases is attributable to a community cluster in northern Manitoba.
- Tuberculosis – Respiratory: 14 cases reported; less than 13 expected in an average month. The increased number of cases is attributable to a community cluster in northern Manitoba.

The expected number of cases and range is statistically based on the number of reported cases during December 2007-2011, January 2008-2012, and February 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR January 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	2	3	3	0-7	2	3
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM		2	0	0-1		2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	12	18		***	12	18
116.0	BLASTOMYCOSIS	2	1		***	2	1
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	15	16	14	6-22	15	16
558.2	CLOSTRIDIUM DIFFICILE	79	73		***	79	73
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS		1	1	0-3		1
061.0	DENGUE FEVER		2	0	0-1		2
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-2		
032	DIPHTHERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		1	1	0-3		1
008.0	E. COLI-VEROTOXIGENIC	4	2	3	0-6	4	2
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	6	9	7	2-12	6	9
038.42	H.INFLUENZAE (BLOOD)	3			***	3	
320.0	H.INFLUENZAE (CSF)	1		0	0-1	1	
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A			0	0-1		
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	39	27	26	12-40	39	27
487.1A	INFLUENZA A	6	359		***	6	359
487.1B	INFLUENZA B	2	21		***	2	21
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		
088.81	LYME DISEASE			0	0-1		
084	MALARIA		1	1	0-3		1
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF		1	0	0-1		1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		
B95.6	MRSA	260	302	220	138-302	260	302
072.9	MUMPS	5		1	0-4	5	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		5	1	0-4		5
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		1	0-5	1	
038.2	PNEUM. SEPTICEMIA	16	17	11	1-21	16	17
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR January 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER		1	0	0-1		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-1		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	2	1	1	0-3	2	1
003.0	SALMONELLA	16	20	19	8-30	16	20
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	2	2	3	0-6	2	2
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	7	3		***	7	3
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	2	0-6		2
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI		1	0	0-0		1
013-012	TUBERCULOSIS - NON-RESP.		1	2	0-4		1
010	TUBERCULOSIS - PRIM.	1	4	1	0-3	1	4
011-012	TUBERCULOSIS - RESP	8	14	6	0-12	8	14
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID	1		0	0-1	1	
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	145	124		***	145	124
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				***		
008.44	YERSINIA ENTEROCOLITICA	4		1	0-4	4	
		<b>639</b>	<b>1034</b>			<b>639</b>	<b>1034</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.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JANUARY 2013

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													3
320.1	BAC. MENINGITIS - PNEUM				1																	1							2
036.0	BAC.MGTS-NMGTS(MGCCL MGTS			1																									1
038.0	BETA STREP SEPTICEMIA		1						1					1			2		4	2	2	1	1		1	2			18
116.0	BLASTOMYCOSIS																						1						1
008.43	CAMPYLOBACTER	1			2	3						2	1		1	1	2			1	1		1						16
558.2	CLOSTRIDIUM DIFFICILE	1	1	2	1	1				2		2		2		4	3	5	1	7	1	5	2	7	8	14	4		73
007.8	CRYPTOSPORIDIOSIS				1																								1
061.0	DENGUE FEVER													1				1											2
123.4	DIPHYLLOBOTHRIUM																1												1
008.0	E. COLI 0157											1				1													2
007.1	GIARDIA LAMBLIA				3		2							1		1		2											9
070.51	HEPATITIS C											2	1	1	6	1	3	4	2	5		1		1					27
487.1A	INFLUENZA A	6	10	21	16	10	12	6	9	10	7	5	8	8	5	5	4	17	13	21	13	11	12	14	16	61	39		359
487.1B	INFLUENZA B		1		2			1						3	1		1	2	2		2	1	1	2		1	1		21
084	MALARIA												1																1
B95.6	MRSA	6	13	21	17	3	9	7	11	10	12	6	8	8	9	17	22	20	14	15	19	8	13	8	11	8	7		302
728.86	NECROTIZING FASCIITIS															1			1	1	1		1						5
038.2	PNEUM. SEPTICEMIA			1						1	2		2			3	1		1	2		2			2				17
083.0	Q. FEVER																	1											1
003.0	SALMONELLA				2				2		2		1	1		2	1	1	2	1	1		1	1	2				20
004	SHIGELLOSIS			1												1													2
041.1	STREP PYOGENES - OTHER ST								1									1		1									3
041.2	STREP.PNEUM.OTHER																		1										1
127.2	STRONGYLOIDIASIS			1								1																	2
013-018	TUBERCULOSIS - NON-RESP.																1												1
010	TUBERCULOSIS - PRIM.			1	2	1																							4
011-012	TUBERCULOSIS - RESP									1		5	1	1	3	1		1				1							14
086	TRYPANOSOMIASIS																			1									1
B96.8	VANCOMYCIN RES. ENTER.			1								2	1	1		4	6	4	5	1	7	11	16	13	16	19	17		124
		14	27	50	47	18	23	14	24	22	23	18	29	31	18	43	46	59	47	55	56	40	51	48	53	108	70		1034

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JANUARY 2013

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					1																3
320.1	BAC. MENINGITIS - PNEUM	2																					2
036.0	BAC.MGTS-NMGTS(MGCCL MGTS									1													1
038.0	BETA STREP SEPTICEMIA	12	1				1					1						3					18
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	7	2				2			4								1					16
558.2	CLOSTRIDIUM DIFFICILE	40	4				3		7	5		6		3		3				2			73
007.8	CRYPTOSPORIDIOSIS		1																				1
061.0	DENGUE FEVER	2																					2
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157	2																					2
007.1	GIARDIA LAMBLIA	6	1					1		1													9
070.51	HEPATITIS C	19	1				1	2				1		1				2					27
487.1A	INFLUENZA A	114	11	5	7		5	2	22	54	1	32	6	40		6	44	10					359
487.1B	INFLUENZA B	8			1		3			4		1	2	2									21
084	MALARIA	1																					1
B95.6	MRSA	105	1	1	1		2	6	4	7	2	6	1	9	5	21	115	16					302
728.86	NECROTIZING FASCIITIS	3								1										1			5
038.2	PNEUM. SEPTICEMIA	8	1		2		1									1	4						17
083.0	Q. FEVER															1							1
003.0	SALMONELLA	12	2				1		2			2				1							20
004	SHIGELLOSIS															2							2
041.1	STREP PYOGENES - OTHER ST	2																1					3
041.2	STREP.PNEUM.OTHER													1									1
127.2	STRONGYLOIDIASIS	1								1													2
013-018	TUBERCULOSIS - NON-RESP.																	1					1
010	TUBERCULOSIS - PRIM.	1																3					4
011-012	TUBERCULOSIS - RESP	3	1				1											9					14
086	TRYPANOSOMIASIS						1																1
B96.8	VANCOMYCIN RES. ENTER.	82			3		9		12	4		3		4		2		5					124
		434	26	6	14		31	10	48	1	81	3	52	9	60	7	35	183	31	3			1034

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - January 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	608	616	608	616
All Gonorrhea Infections (including PRNG)	106	124	106	124
All Syphilis Infections*	10	8	10	8
Gonorrhea & Chlamydia Co-infections	46	55	46	55
HIV	6	12	6	12

**Total Number of STBBI Cases by Age and Gender - January 2013**

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							6	2	125	47	127	66	60	34	45	30	11	3	4	1								561
Gonorrhea Only Cases							2		12	4	10	12	7	4	6	6	2	3				1						69
Syphilis Only Cases											1	1			1	2	1	1			1							8
GC and CT Cases								1	14	3	12	8	5	6	3	3												55
<b>TOTAL</b>							8	3	151	54	150	87	72	44	55	41	14	7	4	1		2						693
HIV												2	1	1		2	2		1	3								12

**Regional STBBI Distribution - January 2013**

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP***	Missing	TOTAL
<b>Case Referred to:**</b>			<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>				
All Chlamydia Infections	271	30	19	10	1	9	12	26	5	30		20	4	16	10	28	88	28		9		616
All Gonorrhea Infections	64	3	5	2			2	2		6			1	3	1	5	23	7				124
All Syphilis Infections	5					1		1		1												8
GC and CT Infections	30		4				1	1		3			1	1		3	11					55

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

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## Manitoba Monthly Surveillance Unit Report

Reported up to February 28, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 52% of all non-STBBI related communicable diseases reported to Manitoba Health during February 2013.

- The number of reported cases of MRSA was above the statistically expected range in February 2013: 304 positive lab-confirmed cases reported; less than 296 expected in an average month.

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

There were 600 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in February 2013:

- 490 reported cases of chlamydia (CT) only
- 53 reported cases of gonorrhoea (GC) only
- 48 reported co-infections of CT and GC and
- 9 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 47% of all reported chlamydia cases in the province.

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

In February 2013, there were no acute cases of Hepatitis B virus (HBV), 20 cases of Hepatitis C virus (HCV) and 8 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in February 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Malaria: 5 positive lab-confirmed cases reported; less than 4 expected in an average month.
- Necrotizing fasciitis (caused by Group A, B, C, D, E, F, or G *Streptococcus*): 4 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Streptococcal Toxic Shock Syndrome: 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Typhoid fever: 2 positive lab-confirmed cases reported; less than 2 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during January, February, and March, 2008-2012.



## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR February 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	3	2	3	0-6	6	4
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM			0	0-1		2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	16	19		***	28	37
116.0	BLASTOMYCOSIS	1	1		***	3	2
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	5	18	15	9-21	21	31
558.2	CLOSTRIDIUM DIFFICILE	81	51		***	160	124
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS	1	1	2	0-5	1	2
061.0	DENGUE FEVER			0	0-1		2
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-2		1
032	DIPHThERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP	3	1	0	0-2	3	2
008.0	E. COLI-VEROTOXIGENIC	2	2	3	1-5	6	4
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	14	10	9	2-16	19	18
038.42	H.INFLUENZAE (BLOOD)		1		***	3	1
320.0	H.INFLUENZAE (CSF)	1		0	0-1	2	
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A			1	0-3		
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	38	20	30	16-44	77	47
487.1A	INFLUENZA A	3	67		***	9	427
487.1B	INFLUENZA B	3	13		***	5	34
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		
088.81	LYME DISEASE			0	0-1		
084	MALARIA		5	1	0-3		5
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1		1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		
B95.6	MRSA	239	304	217	139-295	499	606
072.9	MUMPS	1		1	0-5	9	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		4	0	0-1		8
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS			1	0-4	1	
038.2	PNEUM. SEPTICEMIA	8	9	12	4-20	24	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.

# SUMMARY OF COMMUNICABLE DISEASE FOR February 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-1		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)	1		0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-1		
041.2	S.PNEUM.OTHER	1	1	1	0-3	3	2
003.0	SALMONELLA	16	17	20	10-30	33	37
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	1	5	3	0-7	3	7
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER	14	8		***	21	11
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK		2	0	0-1		2
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	2	1	1	0-4	2	3
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		1
013-018	TUBERCULOSIS - NON-RESP.	3	2	2	0-4	3	3
010	TUBERCULOSIS - PRIM.	1		0	0-2	2	4
011-012	TUBERCULOSIS - RESP	8	12	6	0-12	16	26
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID		2	0	0-1	1	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	138	100		***	283	224
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER	1			***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA	3	1	1	0-4	7	1
		<b>608</b>	<b>680</b>			<b>1252</b>	<b>1708</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.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR FEBRUARY 2013

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						2
038.0	BETA STREP SEPTICEMIA	1	3	1								1						2	3	1	1	2			2	2			19
116.0	BLASTOMYCOSIS																			1									1
008.43	CAMPYLOBACTER			1				1		1	3		1	1	1	1	1		1	1	3		1	1					18
558.2	CLOSTRIDIUM DIFFICILE				1		1			1							3		5	7		4	5	4	2	9	9		51
007.8	CRYPTOSPORIDIOSIS													1															1
V02.4	DIPH. CARRIERS																			1									1
123.4	DIPHYLLOBOTHRIUM														1														1
008.0	E. COLI 0157									1					1														2
007.1	GIARDIA LAMBLIA			1	3		1		1					1	1		1			1									10
038.42	H.INFLUENZAE (BLOOD)		1																										1
070.51	HEPATITIS C											1		1	1	3	4	1	2	2	1		3				1		20
487.1A	INFLUENZA A	5	3	2	4		4	2			1	3	1		1	4	2	1	3	4	1	2	4	5	2	9	4		67
487.1B	INFLUENZA B				1				1	1						1	1	1	1							4	1		13
084	MALARIA									1		1				1		1		1									5
B95.6	MRSA	5	10	16	14	6	7	15	4	9	7	10	8	12	8	21	12	16	22	20	13	11	8	11	7	22	10		304
728.86	NECROTIZING FASCIITIS														1					2						1			4
038.2	PNEUM. SEPTICEMIA		1	1			1											1		1	1	1	1	1					9
003.0	SALMONELLA			2		2	2		1		1	1				2				2		1	1			1			17
004	SHIGELLOSIS						1					2			1									1					5
041.1	STREP PYOGENES - OTHER ST			1												1	1			1		1	1	1	1				8
041.2	STREP.PNEUM.OTHER																				1								1
040.89	STREPTOCOCCAL TOXIC SHOCK																	2											2
127.2	STRONGYLOIDIASIS							1																					1
013-018	TUBERCULOSIS - NON-RESP.							1							1														2
011-012	TUBERCULOSIS - RESP									1		1	2	2		1	1		1	1	1		1						12
002.0	TYPHOID			1														1											2
B96.8	VANCOMYCIN RES. ENTER.									2	1					2	2	3	2	9	9	10	6	15	10	17	12		100
008.44	YERSINIA ENTEROCOLITICA									1																			1
		11	18	26	23	8	17	20	7	17	14	18	14	18	17	33	32	24	43	52	35	31	33	39	25	64	40		680

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR FEBRUARY 2013

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
038.0	BETA STREP SEPTICEMIA	13					2				1			1	1			1					19
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	6			1		5		3		1		1					1					18
558.2	CLOSTRIDIUM DIFFICILE	28	4		1		3		2		4		5		2		1	1					51
007.8	CRYPTOSPORIDIOSIS	1																					1
V02.4	DIPH. CARRIERS	1																					1
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157		1								1												2
007.1	GIARDIA LAMBLIA	9																1					10
038.42	H.INFLUENZAE (BLOOD)								1														1
070.51	HEPATITIS C	15	2								1					1	1						20
487.1A	INFLUENZA A	43	1	3	3		1	1	3		5				1		1	5					67
487.1B	INFLUENZA B	7			1		2				1		1		1								13
084	MALARIA	4													1								5
B95.6	MRSA	105	5	8	3	1	6	1	7	4	4	3	4	1	4	3	9	122	13	1			304
728.86	NECROTIZING FASCIITIS	2													1			1					4
038.2	PNEUM. SEPTICEMIA	5			2		1												1				9
003.0	SALMONELLA	7	3		1		1		3					1			1						17
004	SHIGELLOSIS	3															1	1					5
041.1	STREP PYOGENES - OTHER ST	3								1	1		1			1		1					8
041.2	STREP.PNEUM.OTHER																	1					1
040.89	STREPTOCOCCAL TOXIC SHOCK	1																		1			2
127.2	STRONGYLOIDIASIS	1																					1
013-018	TUBERCULOSIS - NON-RESP.	2																					2
011-012	TUBERCULOSIS - RESP	3			1													8					12
002.0	TYPHOID	2																					2
B96.8	VANCOMYCIN RES. ENTER.	65	1	1	1		4	1	2	2	6		3		2	1	1	5	5				100
008.44	YERSINIA ENTEROCOLITICA						1																1
		330	17	12	14	1	26	3	21	7	25	3	15	3	13	6	15	148	19	2			680

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - February 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	506	538	1114	1159
All Gonorrhea Infections (including PRNG)	87	101	193	226
All Syphilis Infections*	8	9	18	19
Gonorrhea & Chlamydia Co-infections	33	48	79	104
HIV	5	8	11	20

**Total Number of STBBI Cases by Age and Gender - February 2013**

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	2	112	28	116	58	54	31	36	32	5	5	4	5							1	490
Gonorrhea Only Cases									9	3	8	4	5	12	6	5		1										53
Syphilis Only Cases										1					1			1	1	2	2		1					9
GC and CT Cases									19	4	9	3	2	5	2	2	1	1										48
<b>TOTAL</b>							1	2	140	36	133	65	61	48	44	40	6	8	5	7	2		1				1	600
HIV																4	1			2	1							8

**Regional STBBI Distribution - February 2013**

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	270	35	7	13		10	7	26	1	25		10	3	12	7	26	54	25		4	3	538
All Gonorrhea Infections	55	2	2	3		2	4	3	1	3				3		3	14	4		1	1	101
All Syphilis Infections	7	1							1													9
GC and CT Infections	27	1	1	2		2	3	1		1						3	5	1			1	48

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to March 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 51% of all non-STBBI related communicable diseases reported to Manitoba Health during March 2013.

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

There were 591 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in March 2013:

- 474 reported cases of chlamydia (CT) only
- 54 reported cases of gonorrhoea (GC) only
- 49 reported co-infections of CT and GC and
- 14 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 41% of all reported chlamydia cases in the province.

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

In March 2013, there were no acute cases of hepatitis B virus (HBV), 29 cases of hepatitis C virus (HCV) and 6 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in March 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Dengue fever: 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Respiratory tuberculosis: 13 cases reported; less than 13 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during February, March, and April, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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



# SUMMARY OF COMMUNICABLE DISEASE FOR March 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	6	1	3	0-6	12	5
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	1	2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	13	18		***	41	55
116.0	BLASTOMYCOSIS	1	1		***	4	3
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS	1	1	0	0-1	1	1
008.43	CAMPYLOBACTER	15	12	15	5-25	36	45
558.2	CLOSTRIDIUM DIFFICILE	76	67		***	236	191
046.1	CREUTZFELD-JACOB DISEASE		1		***		1
007.8	CRYPTOSPORIDIOSIS	5	1	2	0-7	6	3
061.0	DENGUE FEVER		1	0	0-0		3
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			1	0-3		1
032	DIPHThERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		2	0	0-2	3	4
008.0	E. COLI-VEROTOXIGENIC	3	1	3	0-6	9	5
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	7	5	9	2-16	26	25
038.42	H.INFLUENZAE (BLOOD)	2	2		***	5	3
320.0	H.INFLUENZAE (CSF)		1	0	0-1	2	1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
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		1
070.51	HEPATITIS C	28	29	30	18-42	106	76
487.1A	INFLUENZA A	39	32		***	48	460
487.1B	INFLUENZA B	138	14		***	143	48
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES	1		0	0-1	1	
088.81	LYME DISEASE			0	0-1		
084	MALARIA	2	2	1	0-3	2	7
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF		1	0	0-1		2
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD		1	0	0-1		1
B95.6	MRSA	264	282	214	131-297	763	888
072.9	MUMPS			1	0-4	9	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		2	1	0-3		9
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	2	2	0-9	2	2
038.2	PNEUM. SEPTICEMIA	19	2	12	3-21	43	28
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR March 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-1		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-1		
041.2	S.PNEUM.OTHER	3	1	1	0-3	6	3
003.0	SALMONELLA	13	15	19	10-28	46	53
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	5	1	3	0-7	8	8
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	8	15		***	29	26
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK		1	0	0-1		3
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	4	1	1	0-4	6	4
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS	2		0	0-1	2	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI	1		0	0-1	1	1
013-018	TUBERCULOSIS - NON-RESP.	2	4	2	0-6	5	7
010	TUBERCULOSIS - PRIM.	1	2	1	0-3	3	6
011-012	TUBERCULOSIS - RESP	6	13	8	4-12	22	39
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID	1		0	0-1	2	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	105	151		***	388	375
005.4	VIBRIO PARAHAEMOLYTICUS	1			***	1	
070.59	VIRAL HEP. OTHER				***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-4	7	1
		<b>774</b>	<b>686</b>			<b>2027</b>	<b>2400</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.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR MARCH 2013

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
036.0	BAC.MGTS-NMGTS(MGCCL MGTS)			1																									1
038.0	BETA STREP SEPTICEMIA	1				2								2		1				3	2		1		2	2	2		18
116.0	BLASTOMYCOSIS																						1						1
005.2	C. PERFRINGENS																			1									1
008.43	CAMPYLOBACTER									1		1				2	2	1		2				2			1		12
558.2	CLOSTRIDIUM DIFFICILE			1						1	1			1		2	1	1	1	9	7	11	2	5	6	8	10		67
046.1	CREUTZFELD JACOB DISEASE																							1					1
007.8	CRYPTOSPORIDIOSIS															1													1
061.0	DENGUE FEVER																				1								1
123.4	DIPHYLLOBOTHRIUM															1	1												2
008.0	E. COLI 0157																			1									1
007.1	GIARDIA LAMBLIA			1	2		1													1									5
320.0	H. INFLUENZAE (CSF)	1																											1
038.42	H.INFLUENZAE (BLOOD)			1																						1			2
070.1	HEPATITIS A																	1											1
070.51	HEPATITIS C											2		3		1	5		3	1	5	1	5		1			2	29
487.1A	INFLUENZA A	4	1	1	3		1	1				1		2	2		1	1	1	1	1	1	2	1	2	4	1		32
487.1B	INFLUENZA B				1	1	1	1	1		1			1		1		1	1	3		1							14
084	MALARIA									1						1													2
036.2	MENINGOCOCCEMIA(MGCCCEMIA)									1																			1
B95.6	MRSA	7	8	18	14	11	5	4	7	12	9	7	6	9	15	13	13	12	11	18	19	12	10	11	7	15	9		282
728.86	NECROTIZING FASCIITIS															2													2
033.0	PERTUSSIS	2																											2
038.2	PNEUM. SEPTICEMIA															1							1						2
003.0	SALMONELLA					1				1	1	1			1		3		1	1	1	1	1			1			15
004	SHIGELLOSIS									1																			1
041.1	STREP PYOGENES - OTHER ST															1	1	1		2	7	2				1			15
041.2	STREP.PNEUM.OTHER															1													1
040.89	STREPTOCOCCAL TOXIC SHOCK															1													1
127.2	STRONGYLOIDIASIS																	1											1
013-018	TUBERCULOSIS - NON-RESP.													1	1					1		1							4
010	TUBERCULOSIS - PRIM.			1	1																								2
011-012	TUBERCULOSIS - RESP									1		2	2		1		1	1		1	2		1				1		13
B96.8	VANCOMYCIN RES. ENTER.											2		1	2	2		2	9	12	7	14	17	20	13	28	22		151
		15	9	24	21	14	9	6	8	19	12	16	8	19	22	23	32	24	29	50	60	43	41	39	35	57	49		686

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR MARCH 2013

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
036.0	BAC.MGTS-NMGTS(MGCCL MGTS									1													1
038.0	BETA STREP SEPTICEMIA	13			1							3						1					18
116.0	BLASTOMYCOSIS	1																					1
005.2	C. PERFRINGENS	1																					1
008.43	CAMPYLOBACTER	7	1		1			1		1		1											12
558.2	CLOSTRIDIUM DIFFICILE	33	2		2		2	10		2		6		3	1	2		2	2				67
046.1	CREUTZFELD JACOB DISEASE									1													1
007.8	CRYPTOSPORIDIOSIS	1																					1
061.0	DENGUE FEVER				1																		1
123.4	DIPHYLLOTHRIUM	1																1					2
008.0	E. COLI 0157	1																					1
007.1	GIARDIA LAMBLIA	2				1				1								1					5
320.0	H. INFLUENZAE (CSF)											1											1
038.42	H.INFLUENZAE (BLOOD)	1												1									2
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	19	4							3				3									29
487.1A	INFLUENZA A	19				3		1		1		2		3				2	1				32
487.1B	INFLUENZA B	3										10						1					14
084	MALARIA	2																					2
036.2	MENINGOCOCCEMIA(MGCCEMIA													1									1
B95.6	MRSA	97	3	4	4		7	2	7	2	6	3	6	1	5	5	8	111	11				282
728.86	NECROTIZING FASCIITIS		1					1															2
033.0	PERTUSSIS									2													2
038.2	PNEUM. SEPTICEMIA	1														1							2
003.0	SALMONELLA	8	1		3		1							1		1							15
004	SHIGELLOSIS	1																					1
041.1	STREP PYOGENES - OTHER ST	9		1				1		1		1	1					1					15
041.2	STREP.PNEUM.OTHER									1													1
040.89	STREPTOCOCCAL TOXIC SHOCK													1									1
127.2	STRONGYLOIDIASIS	1																					1
013-018	TUBERCULOSIS - NON-RESP.	2								1								1					4
010	TUBERCULOSIS - PRIM.																	2					2
011-012	TUBERCULOSIS - RESP	2			2					1	1							6	1				13
B96.8	VANCOMYCIN RES. ENTER.	102	6	1	6		4	2	6	1	3		7	1	5		2	4		1			151
		329	18	6	20		18	4	27	4	25	3	37	4	22	6	14	132	16	1			686

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - March 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	554	523	1668	1682
All Gonorrhea Infections (including PRNG)	101	103	294	329
All Syphilis Infections*	8	14	26	39
Gonorrhea & Chlamydia Co-infections	42	49	121	153
HIV	10	6	21	26

**Total Number of STBBI Cases by Age and Gender - March 2013**

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							5	1	96	43	96	55	48	47	34	25	9	10	1	3	1							474
Gonorrhea Only Cases							2		4	4	4	9	9	6	8	4		2		2								54
Syphilis Only Cases												1		3		2	1	4		1		2						14
GC and CT Cases							2	1	8	2	6	15	8	2	1	3		1										49
<b>TOTAL</b>							9	2	108	49	106	80	65	58	43	34	10	17	1	6	1	2						591
HIV														1	1	2				2								6

**Regional STBBI Distribution - March 2013**

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP***	Missing	TOTAL
<b>Case Referred to:**</b>			<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>				
All Chlamydia Infections	260	28	8	15		11	9	14	5	24		15		13	7	22	66	22		4		523
All Gonorrhea Infections	48	1	2	2				3		6		1		1	1	8	20	9		1		103
All Syphilis Infections	12																	2				14
GC and CT Infections	25	1	2	1						2		1			1	6	9	1				49

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to April 30, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 56% of all non-STBBI related communicable diseases reported to Manitoba Health during April 2013.

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

There were 645 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in April 2013:

- 509 reported cases of chlamydia (CT) only
- 62 reported cases of gonorrhoea (GC) only
- 47 reported co-infections of CT and GC and
- 27 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 41% of all reported chlamydia cases in the province.

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

In April 2013, there were no acute cases of hepatitis B virus (HBV), 30 cases of hepatitis C virus (HCV) and 13 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in April 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Dengue fever: 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Invasive meningococcal disease (septicaemia): 2 cases reported; less than 2 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, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR April 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	1		4	0-8	13	5
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	2	2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	20	13		***	61	68
116.0	BLASTOMYCOSIS		1		***	4	4
005.1	BOTULISM				***		
023	BRUCELLOSIS		1	0	0-1		1
005.2	C. PERFRINGENS		1	0	0-1	1	2
008.43	CAMPYLOBACTER	8	15	17	8-26	44	59
558.2	CLOSTRIDIUM DIFFICILE	72	72		***	308	263
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	10	2	2	0-7	16	5
061.0	DENGUE FEVER		2	0	0-1		4
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-2		1
032	DIPHtheria CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		1	0	0-1	3	5
008.0	E. COLI-VEROTOXIGENIC	1	2	3	0-6	10	7
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	9	10	5-15	37	32
038.42	H.INFLUENZAE (BLOOD)	2			***	7	3
320.0	H.INFLUENZAE (CSF)			0	0-1	2	1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A		1	1	0-3		2
070.3	HEPATITIS B			0	0-1		1
070.51	HEPATITIS C	37	30	31	22-40	143	106
487.1A	INFLUENZA A	14	3		***	62	464
487.1B	INFLUENZA B	47	23		***	190	71
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	1	
088.81	LYME DISEASE			0	0-1		
084	MALARIA			1	0-3	2	7
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF	1	1	0	0-1	1	3
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD		2	0	0-1		3
B95.6	MRSA	279	286	222	122-322	1042	1174
072.9	MUMPS			1	0-3	9	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		1	1	0-3		10
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS		1		***	1	
033.0	PERTUSSIS	4		3	0-11	6	2
038.2	PNEUM. SEPTICEMIA	15	13	14	7-21	58	41
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.



# SUMMARY OF COMMUNICABLE DISEASE FOR April 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-1		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-1		
041.2	S.PNEUM.OTHER		2	1	0-3	6	4
003.0	SALMONELLA	15	15	18	6-30	61	69
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	6		3	0-9	14	8
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	6	8		***	35	34
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		3
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	2	1	1	0-4	8	5
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1	2	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI		1	0	0-1	1	2
013-018	TUBERCULOSIS - NON-RESP.	3		2	0-6	8	7
010	TUBERCULOSIS - PRIM.			1	0-3	3	6
011-012	TUBERCULOSIS - RESP	9	8	9	3-15	31	47
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID			0	0-1	2	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	150	121		***	538	496
005.4	VIBRIO PARAHAEMOLYTICUS				***	1	
070.59	VIRAL HEP. OTHER				***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3	7	1
		<b>714</b>	<b>637</b>			<b>2742</b>	<b>3033</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.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR APRIL 2013

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		
036.0	BAC.MGTS-NMGTS(MGCCL MGTS											1																	1
038.0	BETA STREP SEPTICEMIA	1										1				1		2		2	1	2		1		2			13
116.0	BLASTOMYCOSIS															1													1
023	BRUCELLOSIS															1													1
005.2	C. PERFRINGENS																									1			1
008.43	CAMPYLOBACTER	1	1		1		1		2			1		1				1	1	2	1		1		1				15
558.2	CLOSTRIDIUM DIFFICILE		1							1	1	1	1	2		2	1	2	1	3	6	11	8	5	6	14	6		72
007.8	CRYPTOSPORIDIOSIS				1						1																		2
061.0	DENGUE FEVER															1				1									2
123.4	DIPHYLLOBOTHRIUM															1													1
008.0	E. COLI 0157																		1				1						2
007.1	GIARDIA LAMBLIA	1			2	1										1		2		1		1							9
070.1	HEPATITIS A					1																							1
070.51	HEPATITIS C										1		3	4	2	6	1	3	3	4		2					1		30
487.1A	INFLUENZA A	1		1													1												3
487.1B	INFLUENZA B	1	2			3	1	1		1	1		1		2			1	1	1	1		1	1	3	1			23
482.83	LEGIONELLA																					1							1
036.2	MENINGOCOCCEMIA(MGCCEMIA			1																				1					2
B95.6	MRSA	8	7	23	16	11	15	2	7	6	9	8	7	8	6	15	18	13	24	8	15	6	12	7	7	14	14		286
728.86	NECROTIZING FASCIITIS																	1											1
033.1	PARAPERTUSSIS				1																								1
038.2	PNEUM. SEPTICEMIA		1				1											1	2		1		1	1	2	2	1		13
003.0	SALMONELLA		1		1			2		1	1		1	1	1	1		2	1	1	1								15
041.1	STREP PYOGENES - OTHER ST													1		1	1			2				2		1			8
041.2	STREP.PNEUM.OTHER															1							1						2
127.2	STRONGYLOIDIASIS															1													1
086	TRYPANOSOMIASIS																1												1
011-012	TUBERCULOSIS - RESP									2				1				2		2		1							8
B96.8	VANCOMYCIN RES. ENTER.	1	1									1	1		1	1	5	3	6	6	6	6	15	12	10	31	15		121
		14	14	25	22	16	18	3	11	7	14	16	10	16	14	27	37	24	46	25	43	26	44	27	32	65	40		637

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR APRIL 2013

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				
036.0	BAC.MGTS-NMGTS(MGCCL MGTS	1																					1
038.0	BETA STREP SEPTICEMIA	8	2				1				1							1					13
116.0	BLASTOMYCOSIS	1																					1
023	BRUCELLOSIS										1												1
005.2	C. PERFRINGENS	1																					1
008.43	CAMPYLOBACTER	4	1				1				3		4		2								15
558.2	CLOSTRIDIUM DIFFICILE	41	3		3		3		3		5	1	7		5			1					72
007.8	CRYPTOSPORIDIOSIS	1													1								2
061.0	DENGUE FEVER		1								1												2
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157	1													1								2
007.1	GIARDIA LAMBLIA	6									2						1						9
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	15	2		2		1	1	1		1				4			1	1		1		30
487.1A	INFLUENZA A	1			1				1														3
487.1B	INFLUENZA B	7	2						1		4		7				2						23
482.83	LEGIONELLA	1																					1
036.2	MENINGOCOCCEMIA(MGCCCEMIA										1		1										2
B95.6	MRSA	106	3	9	1		4	3	5	4	5	2	2	2	7	7	10	94	22				286
728.86	NECROTIZING FASCIITIS	1																					1
033.1	PARAPERTUSSIS										1												1
038.2	PNEUM. SEPTICEMIA	7	1				2		1								1	1					13
003.0	SALMONELLA	10	1		1		1				1		1										15
041.1	STREP PYOGENES - OTHER ST	6					1											1					8
041.2	STREP.PNEUM.OTHER				1														1				2
127.2	STRONGYLOIDIASIS	1																					1
086	TRYPANOSOMIASIS						1																1
011-012	TUBERCULOSIS - RESP	4									1							3					8
B96.8	VANCOMYCIN RES. ENTER.	82	3	1	4		5	1	5		1	1	5	1	5		3	3	1				121
		307	19	10	13		20	5	17	5	27	4	27	3	25	7	17	105	25		1		637

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - April 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	522	556	2190	2237
All Gonorrhea Infections (including PRNG)	103	109	397	438
All Syphilis Infections*	6	27	32	73
Gonorrhea & Chlamydia Co-infections	37	47	158	200
HIV	3	13	24	39

**Total Number of STBBI Cases by Age and Gender - April 2013**

	<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	
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		TOTAL
Chlamydia Only Cases							6	1	110	37	101	56	56	40	46	36	5	6	1	3	1						4	509
Gonorrhea Only Cases							1		11	3	10	8	4	5	8	6	3	2					1					62
Syphilis Only Cases											1	2	2	3	4	2	1	5		3		2	1	1				27
GC and CT Cases							1		13	8	12	5	4		3	1												47
TOTAL							8	1	134	48	124	71	66	48	61	45	9	13	1	6	1	2	1	2		4	645	
HIV											1		1			4	1	2		4								13

**Regional STBBI Distribution - April 2013**

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	255	28	10	12	2	10	11	12	5	26		20	4	11	10	28	85	21		5	1	556
All Gonorrhea Infections	56	2	2	2	1	1	1			3		1	1		1	6	28	4				109
All Syphilis Infections	20		1					2		2						1	1					27
GC and CT Infections	21			1		1				3		1	1			3	13	3				47

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to May 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 57% of all non-STBBI related communicable diseases reported to Manitoba Health during May 2013.

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

There were 652 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in May 2013:

- 529 reported cases of chlamydia (CT) only
- 64 reported cases of gonorrhoea (GC) only
- 32 reported co-infections of CT and GC and
- 27 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 47% of all reported chlamydia cases in the province.

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

In May 2013, there were no acute cases of hepatitis B virus (HBV), 37 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 May 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Pneumococcal meningitis: 3 positive lab-confirmed cases reported; less than 2 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during April, May, and June, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR May 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	4	2	4	0-8	17	8
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM		3	0	0-1	2	5
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	23	12		***	84	80
116.0	BLASTOMYCOSIS		1		***	4	5
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			0	0-1	1	2
008.43	CAMPYLOBACTER	17	10	20	4-36	61	69
558.2	CLOSTRIDIUM DIFFICILE	65	81		***	373	344
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	1		2	0-7	17	5
061.0	DENGUE FEVER	1	1	0	0-1	1	5
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-2		2
032	DIPHThERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		2	0	0-2	3	7
008.0	E. COLI-VEROTOXIGENIC	1	1	4	0-9	11	8
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	6	6	10	3-17	43	40
038.42	H.INFLUENZAE (BLOOD)		3		***	7	5
320.0	H.INFLUENZAE (CSF)	1	1	0	0-1	3	2
041.5	H.INFLUENZAE (OTHER STERILE)		1	0	0-1		1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A		2	1	0-3		6
070.3	HEPATITIS B			0	0-1		1
070.51	HEPATITIS C	26	37	28	17-39	169	143
487.1A	INFLUENZA A	4			***	66	478
487.1B	INFLUENZA B	24	26		***	214	97
482.83	LEGIONELLA	1		0	0-1	1	1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	1	
088.81	LYME DISEASE			0	0-2		
084	MALARIA	1	1	1	0-4	3	8
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1	1	3
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		3
B95.6	MRSA	311	298	227	123-331	1353	1474
072.9	MUMPS			0	0-2	9	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS			1	0-3		10
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS		1		***	3	
033.0	PERTUSSIS	4		4	0-12	10	2
038.2	PNEUM. SEPTICEMIA	14	12	13	6-20	72	54
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR May 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-1		
056.9C	RUBELLA (confirmed)			0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		1	1	0-2	6	6
003.0	SALMONELLA	8	8	17	4-30	69	81
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	11	3	3	0-9	25	11
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	9	10		***	44	44
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		3
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES	1	2	1	0-4	9	7
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1	2	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI		1	0	0-1	1	3
013-018	TUBERCULOSIS - NON-RESP.	1	4	2	0-6	9	10
010	TUBERCULOSIS - PRIM.		1	1	0-3	3	7
011-012	TUBERCULOSIS - RESP	11	13	10	4-16	42	57
021.9	TULAREMIA		1	0	0-1		1
002.0	TYPHOID			0	0-1	2	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	148	114		***	686	610
005.4	VIBRIO PARAHAEMOLYTICUS				***	1	
070.59	VIRAL HEP. OTHER				***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3	7	1
		<b>693</b>	<b>660</b>			<b>3437</b>	<b>3714</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.



# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR MAY 2013

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																			2
320.1	BAC. MENINGITIS - PNEUM																		2					1					3
038.0	BETA STREP SEPTICEMIA		1									2					1	1	1	1		3		1	1				12
116.0	BLASTOMYCOSIS									1																			1
008.43	CAMPYLOBACTER				1	1			1			1	2		1					1	1	1							10
558.2	CLOSTRIDIUM DIFFICILE		1					1		1						3	2	5	6	8	5	14	4	3	5	17	6		81
061.0	DENGUE FEVER															1													1
V02.4	DIPH. CARRIERS				1																								1
123.4	DIPHYLLOBOTHRIUM														1			1											2
008.0	E. COLI 0157								1																				1
007.1	GIARDIA LAMBLIA			1			1								1		1	1	1										6
320.0	H. INFLUENZAE (CSF)	1																											1
041.5	H.INFLUENZAE (OTHER STER																				1								1
038.42	H.INFLUENZAE (BLOOD)		1														1				1								3
070.1	HEPATITIS A					1	1																						2
070.51	HEPATITIS C											1	2	3		3	5	5	5	3	8		2						37
487.1B	INFLUENZA B		1	2	1		2	2			1	2				3		1		1	2	3				5			26
084	MALARIA																			1									1
B95.6	MRSA	6	5	6	15	11	4	4	10	11	5	5	8	9	9	25	17	22	20	13	20	12	15	12	10	11	13		298
033.1	PARAPERTUSSIS																	1											1
038.2	PNEUM. SEPTICEMIA			1					1	1					1	1	1	1			1	1	1			2			12
003.0	SALMONELLA				1	1				1		1	1	1		1						1							8
004	SHIGELLOSIS					1												1				1							3
041.1	STREP PYOGENES - OTHER ST														1			2	1	2	1	1			1	1			10
041.2	STREP.PNEUM.OTHER																							1					1
127.2	STRONGYLOIDIASIS																	1	1										2
086	TRYPANOSOMIASIS																			1									1
013-018	TUBERCULOSIS - NON-RESP.											1				1								2					4
010	TUBERCULOSIS - PRIM.			1																									1
011-012	TUBERCULOSIS - RESP							2			1			1		2	1			1	1		2				2		13
021.9	TULAREMIA																								1				1
B96.8	VANCOMYCIN RES. ENTER.											1	2	2	2	1	3	2	10	10	8	22	10	14	14	13			114
		7	9	11	19	15	9	9	13	16	7	12	15	16	14	43	29	42	40	38	55	43	52	25	35	51	35		660

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR MAY 2013

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
320.1	BAC. MENINGITIS - PNEUM	3																					3
038.0	BETA STREP SEPTICEMIA	5	1							1		1				1	3						12
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	2					5		1	2													10
558.2	CLOSTRIDIUM DIFFICILE	53	5		1		4		5	4		7		2									81
061.0	DENGUE FEVER	1																					1
V02.4	DIPH. CARRIERS																	1					1
123.4	DIPHYLLOBOTHRIUM	1																1					2
008.0	E. COLI 0157									1													1
007.1	GIARDIA LAMBLIA	4						1										1					6
320.0	H. INFLUENZAE (CSF)											1											1
041.5	H.INFLUENZAE (OTHER STER	1																					1
038.42	H.INFLUENZAE (BLOOD)	1						1								1							3
070.1	HEPATITIS A	2																					2
070.51	HEPATITIS C	29						2	1	2	1			2									37
487.1B	INFLUENZA B	11	1					1		1		12											26
084	MALARIA	1																					1
B95.6	MRSA	103	5	5	2		4	4	5	1	5	2	6	6	10	5	14	106	14	1			298
033.1	PARAPERTUSSIS	1																					1
038.2	PNEUM. SEPTICEMIA	6		1				1						1		1	1	1					12
003.0	SALMONELLA	5				1				1				1									8
004	SHIGELLOSIS	2						1															3
041.1	STREP PYOGENES - OTHER ST	7						1		1				1									10
041.2	STREP.PNEUM.OTHER									1													1
127.2	STRONGYLOIDIASIS	2																					2
086	TRYPANOSOMIASIS									1													1
013-018	TUBERCULOSIS - NON-RESP.	2								1								1					4
010	TUBERCULOSIS - PRIM.																	1					1
011-012	TUBERCULOSIS - RESP	6	1															4	2				13
021.9	TULAREMIA				1																		1
B96.8	VANCOMYCIN RES. ENTER.	85	2	1	1		1	2	2	1	6	1	7	1				4					114
		335	16	7	5			15	9	19	2	27	5	33	9	15	5	17	123	17	1		660

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

\*\* OOP=Out of Province

2013-07-11

**STBBI Infection Summary Report - May 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	610	561	2800	2797
All Gonorrhea Infections (including PRNG)	130	96	527	534
All Syphilis Infections*	5	27	37	102
Gonorrhea & Chlamydia Co-infections	49	32	207	232
HIV	4	11	28	50

**Total Number of STBBI Cases by Age and Gender - May 2013**

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							10		138	32	109	68	61	35	27	26	7	6	3	5		1					1	529
Gonorrhea Only Cases							2	1	8	4	11	11	8	3	3	7	2	1		3								64
Syphilis Only Cases												3	1	2	1	3		4		8		3		1		1		27
GC and CT Cases							2		2	5	8	2	3	2	3	3	1				1							32
<b>TOTAL</b>							14	1	148	41	128	84	73	42	34	39	10	11	3	16		5		1		1		652
HIV													2	1	1	3	1	1		2								11

**Regional STBBI Distribution - May 2013**

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP***	Missing	TOTAL
<b>Case Referred to:**</b>			<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>				
All Chlamydia Infections	241	23	7	14		11	6	21	5	36		17	2	16	7	35	86	29		5		561
All Gonorrhea Infections	48	1	3	2		1	3	1	2	4		2		2	1	4	17	4		1		96
All Syphilis Infections	21							1				1					3			1		27
GC and CT Infections	14		2				1	1	2	2				1	1		6	2				32

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to June 30, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 60% of all non-STBBI related communicable diseases reported to Manitoba Health during June 2013.

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

There were 550 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in June 2013:

- 445 reported cases of chlamydia (CT) only
- 54 reported cases of gonorrhoea (GC) only
- 36 reported co-infections of CT and GC and
- 15 reported cases of syphilis

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

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

In June 2013, there was 1 acute case of hepatitis B virus (HBV), 21 cases of hepatitis C virus (HCV) and 13 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in June 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- Pneumococcal invasive disease (other sterile site): 3 positive lab-confirmed cases reported; less than 3 expected in an average month.
- Tuberculosis (non-respiratory): 5 cases reported; less than 5 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during May, June, and July, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR June 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	4	4	3	0-7	21	12
022	ANTHRAX				***		
127.0	ASCARIASIS		1	0	0-1		1
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	3	5
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	12	15		***	96	95
116.0	BLASTOMYCOSIS	1	2		***	5	7
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			0	0-1	1	2
008.43	CAMPYLOBACTER	38	15	24	9-39	99	88
558.2	CLOSTRIDIUM DIFFICILE	60	83		***	433	427
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	3	2	2	0-5	20	7
061.0	DENGUE FEVER			0	0-1	1	5
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHThERIA CASES			0	0-0		
123.4	DIPHYLLOBOTHRIUM SPP			1	0-3	3	7
008.0	E. COLI-VEROTOXIGENIC	8	3	4	0-9	19	11
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	7	6	11	3-19	50	47
038.42	H.INFLUENZAE (BLOOD)		1		***	7	6
320.0	H.INFLUENZAE (CSF)			0	0-1	3	2
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-0		1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A			1	0-3		5
070.3	HEPATITIS B		1	0	0-1		2
070.51	HEPATITIS C	23	21	27	17-37	192	163
487.1A	INFLUENZA A		1		***	66	465
487.1B	INFLUENZA B		1		***	214	98
482.83	LEGIONELLA	1		0	0-1	2	1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES		1	1	0-3	1	1
088.81	LYME DISEASE	1		1	0-4	1	
084	MALARIA	4	1	1	0-4	7	9
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1	1	3
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		3
B95.6	MRSA	289	317	258	111-405	1642	1792
072.9	MUMPS	1		0	0-1	10	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		1	1	0-3		11
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		3
033.0	PERTUSSIS	2		4	0-11	12	2
038.2	PNEUM. SEPTICEMIA	9	8	10	1-19	81	63
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR June 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-1		
056.9C	RUBELLA (confirmed)			0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	3	1	0-2	7	9
003.0	SALMONELLA	13	15	18	3-33	82	97
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	4	1	3	0-10	29	14
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-1		
041.1	STREP PYOGENES - OTHER	6	13		***	50	57
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		3
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES	3	4	2	0-5	12	11
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1	2	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-2	1	3
013-01	TUBERCULOSIS - NON-RESP.	1	5	2	0-4	10	15
010	TUBERCULOSIS - PRIM.			1	0-3	3	6
011-01	TUBERCULOSIS - RESP	5	16	10	2-18	47	73
021.9	TULAREMIA			0	0-1		1
002.0	TYPHOID			0	0-1	2	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	104	123		***	790	734
005.4	VIBRIO PARAHAEMOLYTICUS				***	1	
070.59	VIRAL HEP. OTHER				***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA	1		0	0-1	8	1
		<b>602</b>	<b>664</b>			<b>4036</b>	<b>4375</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.

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JUNE 2013

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	3												4
127.0	ASCARIASIS																1												1
038.0	BETA STREP SEPTICEMIA	1								1				1		1	2	1	1	1	4		1			1			15
116.0	BLASTOMYCOSIS									1						1													2
008.43	CAMPYLOBACTER				2	1	2				1		1				1	1	1	1	1		1		1	1			15
558.2	CLOSTRIDIUM DIFFICILE						1	1		1		3	1			5	1	3	3	4	8	13	8	3	6	13	9		83
007.8	CRYPTOSPORIDIOSIS			1													1												2
008.0	E. COLI 0157											1	1										1						3
007.1	GIARDIA LAMBLIA			2	1	1										1	1												6
038.42	H.INFLUENZAE (BLOOD)																					1							1
070.3	HEPATITIS B													1															1
070.51	HEPATITIS C									1	2	2	1			2		5	6		2								21
487.1A	INFLUENZA A																									1			1
487.1B	INFLUENZA B									1																			1
027.0	LISTERIA MONOCYTOGENES																					1							1
084	MALARIA														1														1
B95.6	MRSA	3	11	21	19	6	12	5	5	9	11	11	10	9	9	25	21	12	20	15	17	8	11	9	14	7	16	1	317
728.86	NECROTIZING FASCIITIS															1													1
038.2	PNEUM. SEPTICEMIA																					1	1		2	3	1		8
003.0	SALMONELLA			1							3	3			1		1				3	1		1		1			15
004	SHIGELLOSIS													1															1
041.1	STREP PYOGENES - OTHER ST				1					1						1	3				5					1	1		13
041.2	STREP.PNEUM.OTHER																	1				1				1			3
127.2	STRONGYLOIDIASIS									1				1							1					1			4
013-018	TUBERCULOSIS - NON-RESP.				1											1		1		1						1			5
011-012	TUBERCULOSIS - RESP							1			2		2	1		2	1	2	1		3		1						16
B96.8	VANCOMYCIN RES. ENTER.															1	2	3	4	8	8	9	16	12	12	32	15	1	123
		4	11	25	24	8	15	7	5	13	20	20	17	15	11	42	38	29	36	30	52	33	42	25	35	63	42	2	664



# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JUNE 2013

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													4
127.0	ASCARIASIS	1																					1
038.0	BETA STREP SEPTICEMIA	9		1				2		1								2					15
116.0	BLASTOMYCOSIS	1										1											2
008.43	CAMPYLOBACTER	2	2				4	1		1		4						1					15
558.2	CLOSTRIDIUM DIFFICILE	46	3		1		5	4		11		9		3		1							83
007.8	CRYPTOSPORIDIOSIS									1		1											2
008.0	E. COLI 0157	1						2															3
007.1	GIARDIA LAMBLIA	3	1							1		1											6
038.42	H.INFLUENZAE (BLOOD)									1													1
070.3	HEPATITIS B		1																				1
070.51	HEPATITIS C	16	1							1						1	2						21
487.1A	INFLUENZA A	1																					1
487.1B	INFLUENZA B				1																		1
027.0	LISTERIA MONOCYTOGENES							1															1
084	MALARIA		1																				1
B95.6	MRSA	119	3	7	3		3	4	6	1	4	1	7	2	4	8	7	128	9			1	317
728.86	NECROTIZING FASCIITIS	1																					1
038.2	PNEUM. SEPTICEMIA	4						1		1		1						1					8
003.0	SALMONELLA	6	1				3			4		1											15
004	SHIGELLOSIS	1																					1
041.1	STREP PYOGENES - OTHER ST	9						1		1								2					13
041.2	STREP.PNEUM.OTHER	2																1					3
127.2	STRONGYLOIDIASIS	3								1													4
013-018	TUBERCULOSIS - NON-RESP.	5																					5
011-012	TUBERCULOSIS - RESP	9																7					16
B96.8	VANCOMYCIN RES. ENTER.	82	5		4		5	3	6	3	2	5		3				2	3				123
		323	18	8	9		20	7	24	1	33	3	30	2	10	8	9	145	13			1	664

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - June 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	534	481	3334	3278
All Gonorrhea Infections (including PRNG)	122	90	649	624
All Syphilis Infections*	4	15	41	117
Gonorrhea & Chlamydia Co-infections	53	36	260	268
HIV	6	13	34	64

**Total Number of STBBI Cases by Age and Gender - June 2013**

	<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							6		84	40	110	51	50	35	30	24	5	3	3	4									445
Gonorrhea Only Cases			1						10	3	8	6	3	6	4	6	2	3		2									54
Syphilis Only Cases														1	1	2	1	6		3		1							15
GC and CT Cases							1		5	6	8	7	4	3						2									36
TOTAL			1				7		99	49	126	64	57	45	35	32	8	12	3	11		1							550
HIV								1	1			1			3	2	1	3		1									13

**Regional STBBI Distribution - June 2013**

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP***	Missing	TOTAL
<b>Case Referred to:**</b>			<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>				
All Chlamydia Infections	224	20	7	11	16	8	17	3	25		17	4	17	1	23	65	18		5			481
All Gonorrhea Infections	53	2	1	1	2	2		1	2				2		3	18	2		1			90
All Syphilis Infections	12				1		1												1			15
GC and CT Infections	17		1	1			1		2						2	11	1					36

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to July 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 69% of all non-STBBI related communicable diseases reported to Manitoba Health during July 2013.

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

There were 605 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in July 2013:

- 460 reported cases of chlamydia (CT) only
- 74 reported cases of gonorrhoea (GC) only
- 51 reported co-infections of CT and GC and
- 20 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 43% of all reported chlamydia cases in the province.

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

In July 2013, there were no acute cases of Hepatitis B virus (HBV), 30 cases of Hepatitis C virus (HCV) and 12 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in July 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- MRSA: 477 positive lab-confirmed cases reported; less than 455 expected in an average month.
- Strep Toxic Shock: 1 positive lab-confirmed case reported; no cases expected in an average month.
- Tularemia: 3 positive lab-confirmed cases reported; less than 2 cases expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during June, July, and August, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR July 2013

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS		1	3	0-6	21	12
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS			0	0-2		
320.1	BAC. MENINGITIS - PNEUM		1	0	0-1	3	6
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	19	16		***	115	111
116.0	BLASTOMYCOSIS	1	3		***	6	10
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		1
005.2	C. PERFRINGENS			0	0-1	1	3
008.43	CAMPYLOBACTER	28	23	29	12-46	127	113
558.2	CLOSTRIDIUM DIFFICILE	68	82		***	501	510
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	6	1	4	0-15	26	8
061.0	DENGUE FEVER		1	0	0-1	1	6
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHTheria CASES			0	0-0		
123.4	DIPHYLLOBOTHRIUM SPP		2	1	0-4	3	9
008.0	E. COLI-VEROTOXIGENIC	5	2	8	0-32	24	13
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	12	3	13	3-23	62	51
038.42	H.INFLUENZAE (BLOOD)	1			***	8	6
320.0	H.INFLUENZAE (CSF)			0	0-1	3	2
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	2	1	1	0-2	2	6
070.3	HEPATITIS B			0	0-1		2
070.51	HEPATITIS C	30	30	27	16-38	222	193
487.1A	INFLUENZA A		1		***	66	466
487.1B	INFLUENZA B		1		***	214	99
482.83	LEGIONELLA		1	0	0-1	2	2
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	3		1	0-3	4	1
088.81	LYME DISEASE	4		1	0-4	5	
084	MALARIA	2	1	1	0-3	9	10
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF		1	0	0-1	1	4
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCAL BLOOD			0	0-1		3
B95.6	MRSA	407	477	301	148-454	2049	2268
072.9	MUMPS			0	0-1	10	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS			1	0-4		11
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		3
033.0	PERTUSSIS	10		5	0-13	22	2
038.2	PNEUM. SEPTICEMIA	6	7	7	1-13	87	70
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR July 2013

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES				***		
082.0	RICKETTSIA RICKETTSII				***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-1		
056.9C	RUBELLA (confirmed)			0	0-1	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		2	1	0-3	7	11
003.0	SALMONELLA	23	20	20	7-33	105	117
079.82	SARS (CORONAVIRUS)				***		
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	10	1	3	0-9	39	15
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-1		
041.1	STREP PYOGENES - OTHER STERILE	4	12		***	54	69
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK		1	0	0-0		4
481	STREPTOCOCCUS PNEUMONIAE		1	0	0-1		1
127.2	STRONGYLOIDES		1	1	0-4	12	12
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS	1		0	0-1	3	
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI	1		0	0-2	2	3
013-018	TUBERCULOSIS - NON-RESP.	2	1	3	0-5	12	16
010	TUBERCULOSIS - PRIM.	3		1	0-3	6	6
011-012	TUBERCULOSIS - RESP	4	9	10	3-16	51	81
021.9	TULAREMIA		3	0	0-1		4
002.0	TYPHOID	1		0	0-1	3	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	96	103		***	886	837
005.4	VIBRIO PARAHAEEMOLYTICUS				***	1	
070.59	VIRAL HEP. OTHER				***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES	3			***	3	
008.44	YERSINIA ENTEROCOLITICA	1		1	0-3	9	1
		<b>753</b>	<b>809</b>			<b>4789</b>	<b>5186</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 2013

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
320.1	BAC. MENINGITIS - PNEUM	1																											1
036.0	BAC.MGTS-NMGTS(MGCCL MGTS			1																									1
038.0	BETA STREP SEPTICEMIA		1	1	1									1		1	2		1	1		2		2	1	2			16
116.0	BLASTOMYCOSIS													1			1							1					3
008.43	CAMPYLOBACTER		1	1	1	2	1		1			2	1			1	2	1		1	2		1	3	2				23
558.2	CLOSTRIDIUM DIFFICILE	1										3	1	1			6	6	7	6	6	10	5	8	7	11	4		82
007.8	CRYPTOSPORIDIOSIS											1																	1
061.0	DENGUE FEVER				1																								1
123.4	DIPHYLLOBOTHRIUM																1			1									2
008.0	E. COLI 0157										1					1													2
007.1	GIARDIA LAMBLIA			1	1			1																					3
070.1	HEPATITIS A											1																	1
070.51	HEPATITIS C										2	2				4	2	2	5	4	8	1							30
487.1A	INFLUENZA A					1																							1
487.1B	INFLUENZA B			1																									1
482.83	LEGIONELLA																				1								1
084	MALARIA					1																							1
B95.6	MRSA	9	10	32	24	17	18	15	28	17	21	9	12	22	17	15	31	19	25	18	16	10	16	18	19	17	22		477
038.2	PNEUM. SEPTICEMIA							1				1				1	1		1				1		1		1		7
003.0	SALMONELLA	1	1			1		1		1	1		1	3	1				3			3		1	2				20
004	SHIGELLOSIS										1																		1
041.1	STREP PYOGENES - OTHER ST		2									1				1	2	1		1	1	1	1	1					12
481	STREP. PNEUMONIAE PNEUMON						1																						1
041.2	STREP.PNEUM.OTHER					1																		1					2
040.89	STREPTOCOCCAL TOXIC SHOCK															1													1
127.2	STRONGYLOIDIASIS							1																					1
013-018	TUBERCULOSIS - NON-RESP.																							1					1
011-012	TUBERCULOSIS - RESP										1						1	1		1	3			2					9
021.9	TULAREMIA															1	1			1									3
B96.8	VANCOMYCIN RES. ENTER.								1					1		4	1	10	1	8	5	8	10	14	10	10	20		103
		12	15	37	28	20	22	18	31	18	22	21	19	25	22	28	48	45	41	40	41	35	38	43	48	43	49		809

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR July 2013

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
320.1	BAC. MENINGITIS - PNEUM																	1					1
036.0	BAC.MGTS-NMGTS(MGCCL MGTS	1																					1
038.0	BETA STREP SEPTICEMIA	8				1	1			2		1						3					16
116.0	BLASTOMYCOSIS	1				1				1													3
008.43	CAMPYLOBACTER	7	1		1		6			5				1		1		1					23
558.2	CLOSTRIDIUM DIFFICILE	44	1		3		7		2	9	1	8		2		3	2						82
007.8	CRYPTOSPORIDIOSIS		1																				1
061.0	DENGUE FEVER	1																					1
123.4	DIPHYLLOBOTHRIUM	2																					2
008.0	E. COLI 0157	1								1													2
007.1	GIARDIA LAMBLIA	1	1							1													3
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	19	1			1		1		3	1			1	1			1			1		30
487.1A	INFLUENZA A	1																					1
487.1B	INFLUENZA B															1							1
482.83	LEGIONELLA					1																	1
084	MALARIA				1																		1
B95.6	MRSA	153	2	10	2		7	5	18	2	6	5	5	5	6	10	26	197	18				477
038.2	PNEUM. SEPTICEMIA	3	1						1		1						1						7
003.0	SALMONELLA	13		1	1		3				1						1						20
004	SHIGELLOSIS	1																					1
041.1	STREP PYOGENES - OTHER ST	7			1						2						1	1					12
481	STREP. PNEUMONIAE PNEUMON																		1				1
041.2	STREP.PNEUM.OTHER	2																					2
040.89	STREPTOCOCCAL TOXIC SHOCK	1																					1
127.2	STRONGYLOIDIASIS	1																					1
013-18	TUBERCULOSIS - NON-RESP.														1								1
011-12	TUBERCULOSIS - RESP.	4										1						4					9
021.9	TULAREMIA		2								1												3
B96.8	VANCOMYCIN RES. ENTER.	65	3	1	6		7		4		4		4		1			8					103
		<b>338</b>	<b>13</b>	<b>12</b>	<b>15</b>	<b>0</b>	<b>34</b>	<b>6</b>	<b>26</b>	<b>2</b>	<b>37</b>	<b>8</b>	<b>18</b>	<b>6</b>	<b>12</b>	<b>10</b>	<b>34</b>	<b>217</b>	<b>20</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>809</b>

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

\*\* OOP=Out of Province



**STBBI Infection Summary Report - July 2013**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2012	2013	2012	2013
All Chlamydia Infections	628	511	3962	3791
All Gonorrhea Infections (including PRNG)	126	125	775	749
All Syphilis Infections*	11	20	52	137
Gonorrhea & Chlamydia Co-infections	64	51	324	319
HIV	4	12	38	76

**Total Number of STBBI Cases by Age and Gender - July 2013**

	<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	
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		TOTAL
Chlamydia Only Cases							9	1	89	25	106	50	64	35	29	26	12	8	3	1		2						460
Gonorrhea Only Cases							1		15	7	9	9	9	6	6	4	1	6		1								74
Syphilis Only Cases												1			1	4	2	2	1	5		3	1					20
GC and CT Cases							1		16	7	7	7	3	4	3	1	2											51
TOTAL							15	13	157	115	122	67	76	45	39	35	17	16	4	7		5	1					605
HIV					1						2	1		1	1	3	2	1										12

**Regional STBBI Distribution - July 2013**

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	25	7	1		10	8	17	4	23	1	14	1	11	10	24	77	23	2	3		511
All Gonorrhea Infections	56	2				2	2	5		4			1	1		10	32	8		2		125
All Syphilis Infections	17			1						1			1									20
GC and CT Infections	24					1		2		1						3	18	2				51

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to August 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA), *Clostridium difficile* (*C. difficile*), and Vancomycin Resistant Enterococci (VRE) accounted for 78% of all non-STBBI related communicable diseases reported to Manitoba Health during August 2013.

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

There were 606 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in August 2013:

- 491 reported cases of chlamydia (CT) only
- 52 reported cases of gonorrhoea (GC) only
- 40 reported co-infections of CT and GC and
- 23 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 43% of all reported chlamydia cases in the province.

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

In August 2013, there were 26 cases of hepatitis C virus (HCV) and 10 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in August 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- MRSA: 478 positive lab-confirmed cases were reported; between 216 and 450 cases expected

The expected number of cases and range is statistically based on the number of reported cases during July, August, and September, 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR August 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	1	1	2	0-6	22	13
022	ANTHRAX			***	***		
127.0	ASCARIASIS			0	0-0		1
005.8	B. CEREUS			0	0-2		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	6
320.7	BAC.MENINGITIS-LISTERIA			***	***		
038.0	BETA STREP SEPTICEMIA	30	21	***	***	145	132
116.0	BLASTOMYCOSIS		2	***	***	6	12
005.1	BOTULISM			***	***		
023	BRUCELLOSIS			0	0-1		2
005.2	C. PERFRINGENS			0	0-1	1	3
008.43	CAMPYLOBACTER	41	32	31	18-44	168	151
558.2	CLOSTRIDIUM DIFFICILE	51	66	***	***	552	577
046.1	CREUTZFELD-JACOB DISEASE			***	***		1
007.8	CRYPTOSPORIDIOSIS	7	7	7	0-21	33	16
061.0	DENGUE FEVER	1		0	0-1	2	6
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHThERIA CASES			0	0-0		
123.4	DIPHYLLOBOTHRIUM SPP			1	0-3	3	9
008.0	E. COLI-VEROTOXIGENIC	1	5	8	0-32	25	19
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	13	14	13	4-22	75	66
038.42	H.INFLUENZAE (BLOOD)			***	***	8	6
320.0	H.INFLUENZAE (CSF)			0	0-1	3	2
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	1		1	0-3	3	6
070.3	HEPATITIS B	1		0	0-1	1	2
070.51	HEPATITIS C	20	26	27	19-35	242	219
487.1A	INFLUENZA A	1	1	0	0-2	67	467
487.1B	INFLUENZA B			0	0	214	99
482.83	LEGIONELLA			0	0-1	2	2
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY	1		0	0-1	1	
027.0	LISTERIA MONOCYTOGENES			1	0-3	4	1
088.81	LYME DISEASE			1	0-4	5	
084	MALARIA	1		1	0-3	10	10
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-0	1	4
036.82	MENINGOCOCCAL ARTHROPATHY			***	***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		3
B95.6	MRSA	439	478	333	216-450	2488	2746
072.9	MUMPS			0	0-1	10	
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS	2	2	1	0-3	2	14
729.1	NECROTIZING MYOSITIS			***	***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS			***	***		3
033.0	PERTUSSIS	16	1	7	0-19	38	3
038.2	PNEUM. SEPTICEMIA	10	8	7	2-12	97	78
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.

**SUMMARY OF COMMUNICABLE DISEASE FOR August 2013**

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES			***	***		
082.0	RICKETTSIA RICKETTSII			***	***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-1		
056.9C	RUBELLA (confirmed)			0	0-0	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		1	1	0-3	7	12
003.0	SALMONELLA	19	20	19	7-31	124	144
079.82	SARS (CORONAVIRUS)			***	***		
079.99	SEVERE RESPIRATORY ILLNESS			***	***		
004	SHIGELLOSIS	7	4	4	0-11	46	19
050.9	SMALLPOX			***	***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK			***	***		
481.9	STREP PNEUMONIA - PR			0	0-1		
041.1	STREP PYOGENES - OTHER	5	6	***	***	59	74
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		4
481	STREPTOCOCCUS PNEUMONIAE	1		0	0-1	1	1
127.2	STRONGYLOIDES	1	4	2	0-5	13	16
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1	3	
124	TRICHINOSIS			0	0-1		
013-018	TUBERCULOSIS - NON-RESP.	2	3	3	0-5	14	18
010	TUBERCULOSIS - PRIM.		1	1	0-3	6	7
011-012	TUBERCULOSIS - RESP	12	11	10	4-15	63	92
021.9	TULAREMIA			0	0-1		4
002.0	TYPHOID	1		1	0-2	4	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	118	66	***	***	1004	903
005.4	VIBRIO PARAHAEMOLYTICUS		1	***	***	1	1
070.59	VIRAL HEP. OTHER			***	***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL	5	1	***	***	8	1
008.44	YERSINIA ENTEROCOLITICA			1	0-4	9	1
		808	782			5595	5982

\* 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 2013

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		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	2	1		6			3	2	2		2	21
116.0	BLASTOMYCOSIS				1								1															2	
008.43	CAMPYLOBACTER			2	1				1			2		1	3	2		4	1	6	1	2	1	2	1	1	1	32	
558.2	CLOSTRIDIUM DIFFICILE	1								2			2			1	2	2	4	7	2	9	8	6	6	9	5	66	
007.8	CRYPTOSPORIDIOSIS					2		1	2	1		1															7		
008.0	E. COLI 0157						1	1					1		1	1											5		
007.1	GIARDIA LAMBLIA			3	3	3	1											2	1	1							14		
070.51	HEPATITIS C											1	1	3	1	3	3	3	5	2		1	1	2			26		
487.1A	INFLUENZA A																									1	1		
B95.6	MRSA	11	15	18	26	25	19	11	17	16	5	16	15	19	17	35	28	30	22	23	22	9	24	8	10	18	19	478	
728.86	NECROTIZING FASCIITIS																			1	1						2		
033.0	PERTUSSIS																								1		1		
038.2	PNEUM. SEPTICEMIA			1	1				1		1				1		1	1							1		8		
003.0	SALMONELLA			1			1		1			1	1	4	2		2	3	1	2			1				20		
004	SHIGELLOSIS									1			1					2									4		
041.1	STREP PYOGENES - OTHER ST															2	1				1	1	1				6		
041.2	STREP.PNEUM.OTHER														1												1		
127.2	STRONGYLOIDIASIS				1												1	1		1							4		
013-018	TUBERCULOSIS - NON-RESP.							1			1				1												3		
011-012	TUBERCULOSIS - RESP									2				1	2			1			3		1	1			11		
10	TUBERCULOSIS - PRIM.			1																							1		
B96.8	VANCOMYCIN RES. ENTER.		1									1			2	1	1	7	2	1	3	5	6	7	7	13	9	66	
005.4	VIBRIO PARAHAEMOLYTICUS																									1	1		
066.41	WNV Neurological Syndrome																									1	1		
		12	16	27	33	30	23	14	22	20	9	22	22	28	31	47	40	53	41	42	40	28	46	28	26	43	38	782	

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR AUGUST 2013

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP**	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
038.0	BETA STREP SEPTICEMIA	14	1					1		1		1						3				21
116.0	BLASTOMYCOSIS	2																				2
008.43	CAMPYLOBACTER	12	1				3		3		3		6		1		3					32
558.2	CLOSTRIDIUM DIFFICILE	41	4		1		3		3		6		4		2		1	1				66
007.8	CRYPTOSPORIDIOSIS	1					2				3					1						7
008.0	E. COLI 0157	1					1						2		1							5
007.1	GIARDIA LAMBLIA	8	4				1				1											14
070.51	HEPATITIS C	18						1		1	1		1		1		2		1			26
487.1A	INFLUENZA A												1									1
B95.6	MRSA	160	10	13	2		10	3	14	1	11	3	5	4	6	7	18	201	10			478
728.86	NECROTIZING FASCIITIS	1																1				2
033.0	PERTUSSIS																			1		1
038.2	PNEUM. SEPTICEMIA	1			1		1			1	2					1			1			8
003.0	SALMONELLA	9	1				2	1	2		3				2							20
004	SHIGELLOSIS	4																				4
041.1	STREP PYOGENES - OTHER ST	3							1		1						1					6
041.2	STREP.PNEUM.OTHER		1																			1
127.2	STRONGYLOIDIASIS	3	1																			4
013-18	TUBERCULOSIS - NON-RESP	1										1						1				3
10	TUBERCULOSIS- PRIM																	1				1
011-12	TUBERCULOSIS-RESP	7										1						3				11
B96.8	VANCOMYCIN RES. ENTER.	44		2	1		4	1	5		4		1		2			2				66
005.4	VIBRIO PARAHAEMOLYTICUS	1																				1
066.41	WNV Neurological Syndrome								1													1
		<b>332</b>	<b>23</b>	<b>15</b>	<b>5</b>		<b>27</b>	<b>6</b>	<b>30</b>	<b>3</b>	<b>36</b>	<b>5</b>	<b>21</b>	<b>4</b>	<b>15</b>	<b>8</b>	<b>26</b>	<b>213</b>	<b>12</b>	<b>1</b>		<b>782</b>

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

\*\*OOP=Out of Province

# STBBI Infection Summary Report - August 2013

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2012	2013	2012	2013
All Chlamydia Infections	581	531	4543	4321
All Gonorrhea Infections (including PRNG)	147	92	922	841
All Syphilis Infections*	5	23	57	159
Gonorrhea & Chlamydia Co-infections	71	395	395	359
HIV	9	10	47	86

## Total Number of STBBI Cases by Age and Gender - August 2013

	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		
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	TOTAL
Chlamydia Only Cases							5	1	100	31	110	55	52	42	40	32	9	8	2	4							491
Gonorrhea Only Cases							1		6	7	7	10	4		6	4	1	3	1	2							52
Syphilis Only Cases												1	1		3	8	2	4	1	2			1				23
GC and CT Cases							2		13	6	5	2	4	4	1	1		1		1							40
<b>TOTAL</b>							8	1	119	44	122	68	61	46	50	45	12	16	4	9			1				606
HIV									1			1			2		1	3		1			1				10

## Regional STBBI Distribution - August 2013

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP***	Missing	TOTAL
<b>Case Referred to:**</b>			<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>	<b>F</b>	<b>P</b>				
All Chlamydia Infections	230	30	1	17		8	7	15	2	23	1	19	6	19	7	28	80	26	4	7	1	531
All Gonorrhea Infections	34	1	2	4			3	4		5		4		2		2	23	7		1		92
All Syphilis Infections	18						1			1					1	1					1	23
GC and CT Infections	13	1		2						2		1				1	16	4				40

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

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

\*\*\* OOP=Out of Province



## Manitoba Monthly Surveillance Unit Report

Reported up to September 30, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA), *Clostridium difficile* (*C. difficile*), and Vancomycin Resistant Enterococci (VRE) accounted for 83% of all non-STBBI related communicable diseases reported to Manitoba Health during September 2013.

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

There were 754 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in September 2013:

- 577 reported cases of chlamydia (CT) only
- 110 reported cases of gonorrhoea (GC) only
- 47 reported co-infections of CT and GC and
- 20 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 41% of all reported chlamydia cases in the province.

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

In September 2013, there were 18 cases of hepatitis C virus (HCV) and 13 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in September 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- MRSA: 478 positive lab-confirmed cases were reported; between 241 and 429 cases expected

The expected number of cases and range is statistically based on the number of reported cases during August, September, and October 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR September 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	4		3	0-7	26	13
022	ANTHRAX			***	***		
127.0	ASCARIASIS			0	0-0		1
005.8	B. CEREUS			0	0-2		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	6
320.7	BAC.MENINGITIS-LISTERIA			***	***		
038.0	BETA STREP SEPTICEMIA	14	14	***	***	159	146
116.0	BLASTOMYCOSIS	2	2	***	***	8	14
005.1	BOTULISM			***	***		
023	BRUCELLOSIS			0	0-1		2
005.2	C. PERFRINGENS			0	0-1	1	3
008.43	CAMPYLOBACTER	29	14	30	17-43	197	166
558.2	CLOSTRIDIUM DIFFICILE	60	72	***	***	612	649
046.1	CREUTZFELD-JACOB DISEASE			***	***		1
007.8	CRYPTOSPORIDIOSIS	5	11	7	0-22	39	27
061.0	DENGUE FEVER		1	0	0-1	2	7
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHTheria CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		1	1	0-4	3	10
008.0	E. COLI-VEROTOXIGENIC	7	7	7	0-31	32	27
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	13	6	12	3-21	88	72
038.42	H.INFLUENZAE (BLOOD)			***	***	8	6
320.0	H.INFLUENZAE (CSF)			0	0-0	3	2
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		1
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A			1	0-3	3	7
070.3	HEPATITIS B			0	0-1	1	2
070.51	HEPATITIS C	24	18	27	18-36	266	236
487.1A	INFLUENZA A	3		***	***	71	481
487.1B	INFLUENZA B			***	***	217	103
482.83	LEGIONELLA			0	0-1	2	2
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1	1	
027.0	LISTERIA MONOCYTOGENES		1	0	0-1	4	2
088.81	LYME DISEASE	1		1	0-2	6	
084	MALARIA	3		2	0-6	13	10
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-0	1	4
036.82	MENINGOCOCCAL ARTHROPATHY			***	***		
036.2	MENINGOCOCCAL BLOOD			0	0-1		3
B95.6	MRSA	397	478	335	241-429	2885	3223
072.9	MUMPS		1	0	0-1	10	1
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS		1	1	0-4	2	15
729.1	NECROTIZING MYOSITIS			***	***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS	1		***	***	1	3
033.0	PERTUSSIS	23	1	7	0-23	61	4
038.2	PNEUM. SEPTICEMIA	8	5	9	1-17	105	83
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR September 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES			***	***		
082.0	RICKETTSIA RICKETTSII			***	***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-0	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		3	1	0-3	7	15
003.0	SALMONELLA	14	25	18	4-32	138	171
079.82	SARS (CORONAVIRUS)			***	***		
079.99	SEVERE RESPIRATORY ILLNESS			***	***		
004	SHIGELLOSIS	12	2	5	0-14	58	21
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 STERILE	11	9	***	***	70	83
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		4
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	1	1
127.2	STRONGYLOIDES		2	2	0-5	13	18
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1	3	
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI	1		0	0-1	3	3
013-01	TUBERCULOSIS - NON-RESP.	2	1	2	0-5	16	19
010	TUBERCULOSIS - PRIM.	1	1	1	0-3	7	8
011-01	TUBERCULOSIS - RESP	8	15	9	3-15	71	107
021.9	TULAREMIA			0	0-1		4
002.0	TYPHOID			1	0-2	4	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	99	131	***	***	1103	1034
005.4	VIBRIO PARAHAEMOLYTICUS	1	1	***	***	2	2
070.59	VIRAL HEP. OTHER			***	***	1	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES	2		***	***	10	1
008.44	YERSINIA ENTEROCOLITICA		2	1	0-4	9	3
		745	825			6347	6831

\* 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 2013

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		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	
038.0	BETA STREP SEPTICEMIA		2											1			2		2	1	3		2				1	14
116.0	BLASTOMYCOSIS						1															1					2	
008.43	CAMPYLOBACTER						1	2			1		1	1	1	2		1		1		2				1	14	
558.2	CLOSTRIDIUM DIFFICILE					1			1	3		1	1				1		2	9	3	11	3	7	7	9	13	72
007.8	CRYPTOSPORIDIOSIS			3	2		2					1				3											11	
061.0	DENGUE FEVER							1																			1	
123.4	DIPHYLLOBOTHRIUM																1										1	
008.0	E. COLI 0157		1				1			1	1		1						1	1							7	
007.1	GIARDIA LAMBLIA			2	1								1	1			1										6	
070.51	HEPATITIS C											2		2	2	3	4	1	2	1	1						18	
027.0	LISTERIA MONOCYTOGENES																					1					1	
B95.6	MRSA	7	9	36	21	20	20	15	13	15	23	17	12	15	19	22	26	24	38	24	23	15	11	12	11	16	14	478
072.9	MUMPS																1										1	
728.86	NECROTIZING FASCIITIS															1											1	
033.0	PERTUSSIS	1																									1	
038.2	PNEUM. SEPTICEMIA																1			1		1		1	1		5	
003.0	SALMONELLA			1	1	1	1		1		1		1	3	1	4	1	1		1		6		1			25	
004	SHIGELLOSIS												1					1									2	
041.1	STREP PYOGENES - OTHER ST	1					1								1	1	1		1		2			1			9	
041.2	STREP.PNEUM.OTHER	1																1		1							3	
127.2	STRONGYLOIDIASIS														2												2	
013-018	TUBERCULOSIS - NON-RESP.																	1									1	
011-012	TUBERCULOSIS - RESP									1	1			1		2	1	2	1	4			2				15	
10	TUBERCULOSIS - PRIM.							1																			1	
B96.8	VANCOMYCIN RES. ENTER.												2	1	1	2	2	6	4	4	12	13	10	13	11	31	19	131
005.4	VIBRIO PARAHAEMOLYTICUS															1											1	
008.44	YERSINIA ENTEROCOLITICA	1															1										2	
		11	12	42	25	22	27	19	15	20	27	21	20	25	27	41	42	37	52	47	44	48	32	34	31	56	48	825

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR SEPTEMBER 2013

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP**	TOTAL
Case Referred to:*				F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P			
038.0	BETA STREP SEPTICEMIA	8	2										1					3				14
116.0	BLASTOMYCOSIS	1									1											2
008.43	CAMPYLOBACTER	4	1		2		1				1		2		1		1	1				14
558.2	CLOSTRIDIUM DIFFICILE	32	8		6		3	1	7		6		5	1	1		1		1			72
007.8	CRYPTOSPORIDIOSIS	1	7	1			1						1									11
061.0	DENGUE FEVER	1																				1
123.4	DIPHYLLOBOTHRIUM	1																				1
008.0	E. COLI 0157				1		1						2		2				1			7
007.1	GIARDIA LAMBLIA	3	1								1						1					6
070.51	HEPATITIS C	10	1	2				1	1		1				1		1					18
027.0	LISTERIA MONOCYTOGENES	1																				1
B95.6	MRSA	177	3	16	3		6	4	21	3	14	4	4	9	10	6	19	163	16			478
072.9	MUMPS	1																				1
728.86	NECROTIZING FASCIITIS	1																				1
033.0	PERTUSSIS																1					1
038.2	PNEUM. SEPTICEMIA	4															1					5
003.0	SALMONELLA	15					3	1	2		1				2	1						25
004	SHIGELLOSIS	1																1				2
041.1	STREP PYOGENES - OTHER ST	8																1				9
041.2	STREP.PNEUM.OTHER	2	1																			3
127.2	STRONGYLOIDIASIS	2																				2
013-018	TUBERCULOSIS - NON-RESP.	1																				1
011-012	TUBERCULOSIS - RESP	5		1			1										1	7				15
10	TUBERCULOSIS - PRIM.																	1				1
B96.8	VANCOMYCIN RES. ENTER.	84	4		4	1			16		8	1	3	3	3		2	2				131
005.4	VIBRIO PARAHAEMOLYTICUS	1																				1
008.44	YERSINIA ENTEROCOLITICA	1	1																			2
		365	29	20	16	1	16	7	47	3	33	5	18	15	19	6	28	179	18			825

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

\*\*OOP=Out of Province

# STBBI Infection Summary Report - September 2013

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2012	2013	2012	2013
All Chlamydia Infections	546	577	5089	4896
All Gonorrhea Infections (including PRNG)	136	110	1058	949
All Syphilis Infections*	11	20	68	179
Gonorrhea & Chlamydia Co-infections	63	47	458	405
HIV	3	13	50	99

## Total Number of STBBI Cases by Age and Gender - September 2013

	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		
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	TOTAL
Chlamydia Only Cases							13	1	112	41	105	62	59	46	35	30	9	12	2	3							530
Gonorrhea Only Cases									9	8	19	8	2	3	4	4		3	1	2							63
Syphilis Only Cases												1	1		2	4	1	3	2	3		2		1			20
GC and CT Cases								1	17	4	5	8	4	3	1	2	1	1									47
TOTAL							13	2	138	53	129	79	66	52	42	40	11	19	5	8		2		1			660
HIV													2	1	3	2	1	1	1	2							13

## Regional STBBI Distribution - September 2013

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	245	22	8	12		12	5	16	11	36	1	19	1	29	5	37	72	35	1	10		577
All Gonorrhea Infections	51	1	5	1		1	1	1	3	4		2		3		3	22	10		2		110
All Syphilis Infections	16					1		1						1			1					20
GC and CT Infections	22		1						1	1		1		3		1	13	2		2		47

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to October 31, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA), *Clostridium difficile* (*C. difficile*), and Vancomycin Resistant Enterococci (VRE) accounted for 83% of all non-STBBI related communicable diseases reported to Manitoba Health during October 2013.

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

There were 704 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in October 2013:

- 562 reported cases of chlamydia (CT) only
- 62 reported cases of gonorrhoea (GC) only
- 54 reported co-infections of CT and GC and
- 26 reported cases of syphilis

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

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

In October 2013, there were 35 cases of hepatitis C virus (HCV) and 17 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in October 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- *C. Perfringens*: 2 positive lab-confirmed cases were reported; between 0 and 1 cases expected
- Dengue Fever: 2 positive lab-confirmed cases were reported; between 0 and 1 cases expected
- MRSA: 473 positive lab-confirmed cases were reported; between 214 and 412 cases expected

The expected number of cases and range is statistically based on the number of reported cases during September, October, and November 2008-2012.



## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR October 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. range**	2012	2013
006.9	AMEBIASIS	6	1	3	0-7	32	14
022	ANTHRAX			***	***		
127.0	ASCARIASIS			0	0-0		1
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM	2		0	0-1	5	6
320.7	BAC.MENINGITIS-LISTERIA			***	***		
038.0	BETA STREP SEPTICEMIA	20	15	***	***	179	161
116.0	BLASTOMYCOSIS		2	***	***	8	16
005.1	BOTULISM			***	***		
023	BRUCELLOSIS			0	0-1		2
005.2	C. PERFRINGENS		2	0	0-1	1	5
008.43	CAMPYLOBACTER	29	14	24	8-40	226	183
558.2	CLOSTRIDIUM DIFFICILE	61	74	***	***	673	723
046.1	CREUTZFELD-JACOB DISEASE			***	***	1	
007.8	CRYPTOSPORIDIOSIS	1	4	5	0-17	40	32
061.0	DENGUE FEVER	1	2	0	0-1	3	9
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHTHERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP		1	1	0-3	3	11
008.0	E. COLI-VEROTOXIGENIC	3		4	0-8	34	27
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	5	10	3-17	99	79
038.42	H.INFLUENZAE (BLOOD)	2	1	***	***	10	8
320.0	H.INFLUENZAE (CSF)			0	0-0	3	2
041.5	H.INFLUENZAE (OTHER STERILE)		1	0	0-1		2
480.8	HANTA VIRUS	1		0	0-1	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1	2	1	0-2	4	10
070.3	HEPATITIS B			1	0-2	1	2
070.51	HEPATITIS C	34	35	27	17-37	300	270
487.1A	INFLUENZA A	3	1	***	***	74	482
487.1B	INFLUENZA B		1	***	***	217	104
482.83	LEGIONELLA	1		0	0-1	3	3
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0	1	
027.0	LISTERIA MONOCYTOGENES			0	0-1	4	2
088.81	LYME DISEASE			0	0-1	6	
084	MALARIA	4		2	0-5	17	10
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	1	4
036.82	MENINGOCOCCAL ARTHROPATHY			***	***		
036.2	MENINGOCOCCAL BLOOD			0	0-1		3
B95.6	MRSA	392	473	313	214-412	3277	3690
072.9	MUMPS			0	0-1	10	1
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS	1	1	1	0-3	3	16
729.1	NECROTIZING MYOSITIS			***	***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS			***	***	1	3
033.0	PERTUSSIS	24	1	7	0-25	85	5
038.2	PNEUM. SEPTICEMIA	14	11	11	2-20	119	94
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.

# SUMMARY OF COMMUNICABLE DISEASE FOR October 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-0		1
A82.9	RABIES			***	***		
082.0	RICKETTSIA RICKETTSII			***	***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-0	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	2	1	1	0-3	9	16
003.0	SALMONELLA	10	19	15	3-27	148	192
079.82	SARS (CORONAVIRUS)			***	***		
079.99	SEVERE RESPIRATORY ILLNESS			***	***		
004	SHIGELLOSIS	13	1	4	0-13	71	22
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	9	6	***	***	79	88
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		4
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	1	1
127.2	STRONGYLOIDES	1	2	2	0-6	14	20
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1	3	
124	TRICHINOSIS	2		0	0-1	2	
086	TRYPANOSOMA CRUZI			0	0-1	3	3
013-01	TUBERCULOSIS - NON-RESP.	2	2	3	0-5	18	21
010	TUBERCULOSIS - PRIM.	0	0	1	0-2	7	8
011-01	TUBERCULOSIS - RESP	12	11	8	2-15	82	118
021.9	TULAREMIA			0	0-1		4
002.0	TYPHOID	1		1	0-2	5	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	120	144	***	***	1223	1178
005.4	VIBRIO PARAHAEMOLYTICUS			***	***	2	2
070.59	VIRAL HEP. OTHER	1		***	***	2	
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL			***	***	10	1
008.44	YERSINIA ENTEROCOLITICA			1	0-4	9	3
		<b>784</b>	<b>833</b>			<b>7130</b>	<b>7666</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 OCTOBER 2013

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+		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
038.0	BETA STREP SEPTICEMIA	1						1		1						2	2	2	3					1	1		1	15
116.0	BLASTOMYCOSIS										1									1								2
005.2	C. PERFRINGENS	1																			1							2
008.43	CAMPYLOBACTER					1		1		1				1		1	2	1	3	1		2						14
558.2	CLOSTRIDIUM DIFFICILE						1		1	1		1	1			3	4	2	5	10	6	6	5	4	2	10	12	74
007.8	CRYPTOSPORIDIOSIS			1						1						1				1								4
061.0	DENGUE FEVER									1										1								2
123.4	DIPHYLLOBOTHRIUM												1															1
007.1	GIARDIA LAMBLIA				2										1		1				1							5
041.5	H.INFLUENZAE (OTHER STER																	1										1
038.42	H.INFLUENZAE (BLOOD)																			1								1
070.1	HEPATITIS A									2																		2
070.51	HEPATITIS C											3	2	5	1	5	7	2	4	1	1		3				1	35
487.1A	INFLUENZA A																	1										1
487.1B	INFLUENZA B																			1								1
B95.6	MRSA	7	9	19	19	25	20	9	10	12	12	21	22	19	19	22	28	22	30	23	32	12	23	14	10	25	9	473
728.86	NECROTIZING FASCIITIS																			1								1
033.0	PERTUSSIS				1																							1
038.2	PNEUM. SEPTICEMIA									1				1				1	2	1	1	1	1			1		11
003.0	SALMONELLA		1	2	3	1	1		2							2		2	1					1	2		1	19
004	SHIGELLOSIS																		1									1
041.1	STREP PYOGENES - OTHER ST												1					2	1		2							6
041.2	STREP.PNEUM.OTHER	1																										1
127.2	STRONGYLOIDIASIS															1				1								2
013-018	TUBERCULOSIS - NON-RESP.													1	1													2
011-012	TUBERCULOSIS - RESP											1		1		2		2		3		1				1		11
B96.8	VANCOMYCIN RES. ENTER.	1	1							1		1		2	4	2	4	4	5	10	7	12	16	11	20	29	18	144
		11	11	22	25	27	22	11	14	16	18	27	27	26	25	44	46	42	55	52	54	35	48	32	35	66	42	833

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR OCTOBER 2013

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	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
038.0	BETA STREP SEPTICEMIA	7	1				1		2			1	1					1	1		15
116.0	BLASTOMYCOSIS	2																			2
005.2	C. PERFRINGENS	1			1																2
008.43	CAMPYLOBACTER	1	1		2		3		2	1	1		1		1				1		14
558.2	CLOSTRIDIUM DIFFICILE	37	6		4		3		8		7		4		1		3		1		74
007.8	CRYPTOSPORIDIOSIS	1	1							1		1									4
061.0	DENGUE FEVER	2																			2
123.4	DIPHYLLOBOTHRIUM	1																			1
007.1	GIARDIA LAMBLIA	3	1															1			5
041.5	H.INFLUENZAE (OTHER STER															1					1
038.42	H.INFLUENZAE (BLOOD)																		1		1
070.1	HEPATITIS A	2																			2
070.51	HEPATITIS C	21	2	1					3		1		1		2		1	1	2		35
487.1A	INFLUENZA A	1																			1
487.1B	INFLUENZA B	1																			1
B95.6	MRSA	155	5	5	1		10	7	23	2	6		3	5	9	7	20	195	20		473
728.86	NECROTIZING FASCIITIS	1																			1
033.0	PERTUSSIS	1																			1
038.2	PNEUM. SEPTICEMIA	2	1				2		2		1	1						1	1		11
003.0	SALMONELLA	9	3				3	1					2		1						19
004	SHIGELLOSIS						1														1
041.1	STREP PYOGENES - OTHER ST	3						1		1						1					6
041.2	STREP.PNEUM.OTHER								1												1
127.2	STRONGYLOIDIASIS	2																			2
013-018	TUBERCULOSIS - NON-RESP.	2																			2
011-012	TUBERCULOSIS - RESP	4														1		5	1		11
B96.8	VANCOMYCIN RES. ENTER.	101	1		2		3	2	7		3	1	2	1	11	3	1	6			144
		<b>361</b>	<b>22</b>	<b>6</b>	<b>10</b>		<b>26</b>	<b>11</b>	<b>48</b>	<b>4</b>	<b>20</b>	<b>3</b>	<b>15</b>	<b>6</b>	<b>25</b>	<b>11</b>	<b>27</b>	<b>210</b>	<b>28</b>		<b>833</b>

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

\*\*OOP=Out of Province

# STBBI Infection Summary Report - October 2013

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2012	2013	2012	2013
All Chlamydia Infections	600	616	5689	5512
All Gonorrhea Infections (including PRNG)	101	116	1159	1066
All Syphilis Infections*	10	26	78	205
Gonorrhea & Chlamydia Co-infections	47	54	505	459
HIV	11	17	61	116

## Total Number of STBBI Cases by Age and Gender - October 2013

	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		
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	TOTAL
Chlamydia Only Cases							8	1	134	42	108	59	77	41	40	27	9	5	2	6	1	1				1	562
Gonorrhea Only Cases									6	3	11	13	7	7	6	3	1	2		2			1				62
Syphilis Only Cases									2	1	1		3	2	4		4		3	1	4		1				26
GC and CT Cases							1		7	9	12	8	4	3	4	3		2		1							54
TOTAL							9	1	147	56	132	81	88	54	52	37	10	13	2	12	2	5		2		1	704
HIV											1	1	1	1	4	1		6		1		1					17

## Regional STBBI Distribution - October 2013

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					
All Chlamydia Infections	293	15	16	9	6	4	25	5	30		19	5	10	8	35	98	30	1	6	1	616
All Gonorrhea Infections	54		6	1	1			2	3		3		1	1	4	34	6				116
All Syphilis Infections	23	1														1	1				26
GC and CT Infections	20		4								1				2	24	3				54

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

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

\*\*\* OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to November 30, 2013

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA), *Clostridium difficile* (*C. difficile*), and Vancomycin Resistant Enterococci (VRE) accounted for 81% of all non-STBBI related communicable diseases reported to Manitoba Health during November 2013.

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

There were 602 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in November 2013:

- 477 reported cases of chlamydia (CT) only
- 50 reported cases of gonorrhoea (GC) only
- 52 reported co-infections of CT and GC and
- 23 reported cases of syphilis

Chlamydia has the highest incidence of reported STBBI. Females between the ages of 15 and 24 years comprised 43% of all reported chlamydia cases in the province.

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

In November 2013, there were 16 cases of hepatitis C virus (HCV) and 10 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in November 2013 was within or below the statistically expected range for these reported communicable diseases with the exception of the following disease(s):

- *Bacillus cereus*: 1 positive lab-confirmed case was reported; 0 cases expected

The expected number of cases and range is statistically based on the number of reported cases during October, November, and December 2008-2012.

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

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



# SUMMARY OF COMMUNICABLE DISEASE FOR November 2013

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2012	2013	Expected*	Ex. Range**	2012	2013
006.9	AMEBIASIS	1	1	3	0-6	33	15
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		1
005.8	B. CEREUS		1	0	0-0		1
320.1	BAC. MENINGITIS - PNEUM			0	0-1	5	6
320.7	BAC.MENINGITIS-LISTERIA			***	***		
038.0	BETA STREP SEPTICEMIA	15	21	***	***	194	182
116.0	BLASTOMYCOSIS	1	1	***	***	9	17
005.1	BOTULISM			***	***		
023	BRUCELLOSIS			0	0-1		2
005.2	C. PERFRINGENS			0	0-1	1	5
008.43	CAMPYLOBACTER	15	14	17	1-33	241	197
558.2	CLOSTRIDIUM DIFFICILE	70	74	***	***	743	797
046.1	CREUTZFELD-JACOB DISEASE			***	***		1
007.8	CRYPTOSPORIDIOSIS	1	6	2	0-8	41	38
061.0	DENGUE FEVER	1		0	0-1	4	9
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		2
032	DIPHtheria CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP	1		1	0-3	4	11
008.0	E. COLI-VEROTOXIGENIC	1		3	0-6	35	27
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	7	5	9	4-14	106	84
038.42	H.INFLUENZAE (BLOOD)	1			***	11	8
320.0	H.INFLUENZAE (CSF)			0	0-0	3	2
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		2
480.8	HANTA VIRUS			0	0-1	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A		1	0	0-1	4	11
070.3	HEPATITIS B	1		0	0-1	2	2
070.51	HEPATITIS C	32	16	26	14-38	332	285
487.1A	INFLUENZA A	7	7	***	***	81	489
487.1B	INFLUENZA B	3	3	***	***	220	107
482.83	LEGIONELLA			0	0-1	3	3
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0	1	
027.0	LISTERIA MONOCYTOGENES			0	0-1	4	2
088.81	LYME DISEASE			0	0-1	6	
084	MALARIA		2	2	0-6	17	12
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF	1		0	0-1	2	4
036.82	MENINGOCOCCAL ARTHROPATHY			***	***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		3
B95.6	MRSA	350	362	289	190-388	3627	4052
072.9	MUMPS			0	0-1	10	1
036.89	N.MENINGITIDIS OTHER			0	0-1		
728.86	NECROTIZING FASCIITIS			1	0-3	3	16
729.1	NECROTIZING MYOSITIS		***		***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS		***		***	1	3
033.0	PERTUSSIS	23		6	0-22	108	5
038.2	PNEUM. SEPTICEMIA	9	9	11	0-23	128	103
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	
		2012	2013	Expected*	Ex. Range**	2012	2013
083.0	Q FEVER			0	0-1		1
A82.9	RABIES			***	***		
082.0	RICKETTSIA RICKETTSII			***	***		
083.9	RICKETTSIAL DISEASE, OTHER			0	0-0		
056.9C	RUBELLA (confirmed)			0	0-0	1	
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	3		1	0-3	12	16
003.0	SALMONELLA	15	12	15	5-25	163	204
079.82	SARS (CORONAVIRUS)			***	***		
079.99	SEVERE RESPIRATORY ILLNESS			***	***		
004	SHIGELLOSIS	2		4	0-12	73	22
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 STERILE	10	12	***	***	89	100
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-1		
040.89	STREPT TOXIC SHOCK			0	0-1		4
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	1	1
127.2	STRONGYLOIDES	2	4	2	0-5	16	24
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-2	3	
124	TRICHINOSIS			0	0-1	2	
086	TRYPANOSOMA CRUZI			0	0-1	3	3
013-01	TUBERCULOSIS - NON-RESP.	1	2	2	0-4	19	23
010	TUBERCULOSIS - PRIM.	1	0	0	0-2	8	8
011-01	TUBERCULOSIS - RESP	12	5	8	0-26	94	122
021.9	TULAREMIA			0	0-0		4
002.0	TYPHOID			1	0-2	5	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	111	110	***	***	1334	1288
005.4	VIBRIO PARAHAEMOLYTICUS			***	***	2	2
070.59	VIRAL HEP. OTHER		2	***	***	2	2
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES				***	10	1
008.44	YERSINIA ENTEROCOLITICA		1	1	0-2	9	4
		<b>697</b>	<b>671</b>			<b>7826</b>	<b>8336</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 NOVEMBER 2013

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		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	
005.8	B. CEREUS																			1								1	
038.0	BETA STREP SEPTICEMIA			1	1				1							1		1	1	1	1	3	2	3	3	2		21	
116.0	BLASTOMYCOSIS						1																					1	
008.43	CAMPYLOBACTER				1			1			1		2	1	1	1	2			1	1					2		14	
558.2	CLOSTRIDIUM DIFFICILE	1		1	1						2	1	1	1	1	1		2	7	11	6	6	3	7	5	8	9	74	
007.8	CRYPTOSPORIDIOSIS					1						2			1		1			1								6	
007.1	GIARDIA LAMBLIA				2										1						1						1	5	
070.1	HEPATITIS A						1																					1	
070.51	HEPATITIS C											1			1	3	2	3		2		1		1		2		16	
070.59	HEPATITIS OTHER (VIRAL)														1										1			2	
487.1A	INFLUENZA A				1				1									1	4									7	
487.1B	INFLUENZA B									1							1								1			3	
084	MALARIA				1													1										2	
B95.6	MRSA	6	11	25	11	15	17	5	8	14	10	10	18	10	11	14	19	23	25	14	20	13	20	2	14	15	12	362	
038.2	PNEUM. SEPTICEMIA		1																1	3			2	1	1			9	
003.0	SALMONELLA										2		1				1	2		1	1	1		1	1	1		12	
041.1	STREP PYOGENES - OTHER ST														1			2	1	1	1	3	2			1		12	
127.2	STRONGYLOIDIASIS							1					1	1			1											4	
013-018	TUBERCULOSIS - NON-RESP.														1				1									2	
011-012	TUBERCULOSIS - RESP											2							1		1	1						5	
B96.8	VANCOMYCIN RES. ENTER.	1	1							1					2	1	3	4	3	3	4	10	12	8	14	7	22	14	110
008.44	YERSINIA ENTEROCOLITICA																				1							1	

## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR NOVEMBER 2013

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	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
005.8	B. CEREUS	1																			1
038.0	BETA STREP SEPTICEMIA	17					1								1			1	1		21
116.0	BLASTOMYCOSIS			1																	1
008.43	CAMPYLOBACTER	3	1				3		1		1		3	1				1			14
558.2	CLOSTRIDIUM DIFFICILE	41	9		2		2	1	3		4		9	1			1	1			74
007.8	CRYPTOSPORIDIOSIS	2	4																		6
007.1	GIARDIA LAMBLIA	2					1				1				1						5
070.1	HEPATITIS A		1																		1
070.51	HEPATITIS C	7	1			1					2			1	3				1		16
070.59	HEPATITIS OTHER (VIRAL)	2																			2
487.1A	INFLUENZA A	6																1			7
487.1B	INFLUENZA B						2														2
084	MALARIA	2																			2
B95.6	MRSA	125	4	12	2		1	9	10	3	10	3	2	1	8	9	16	128	18	1	362
038.2	PNEUM. SEPTICEMIA	4							1		2				1			1			9
003.0	SALMONELLA	8											3				1				12
041.1	STREP PYOGENES - OTHER ST	7		1									2	1			1				12
127.2	STRONGYLOIDIASIS	4																			4
013-01	TUBERCULOSIS - NON-RESP.	2																			2
011-01	TUBERCULOSIS - RESP	2																3			5
B96.8	VANCOMYCIN RES. ENTER.	52	6	2	4		3	2	11		4	3	6		5		3	7	2		110
008.44	YERSINIA ENTEROCOLITICA	1																			1

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

# STBBI Infection Summary Report - November 2013

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2012	2013	2012	2013
All Chlamydia Infections	561	529	6250	6066
All Gonorrhea Infections (including PRNG)	119	102	1278	1171
All Syphilis Infections*	13	23	91	228
Gonorrhea & Chlamydia Co-infections	58	52	563	514
HIV	8	10	70	124

## Total Number of STBBI Cases by Age and Gender - November 2013

	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		
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	TOTAL
Chlamydia Only Cases					1		8	3	102	39	105	62	37	44	28	29	12	5	1	1							477
Gonorrhea Only Cases							1	4	2	6	10	8	4	6	7		2										50
Syphilis Only Cases											1		1	7	2	5	1		3		1		1	1			23
GC and CT Cases							3		10	5	10	11	4	4	2	3											52
<b>TOTAL</b>					1		11	4	116	46	121	84	49	53	43	41	17	8	1	4		1		1	1		602
HIV									1				1	1	1	2			1	3							10

## Regional STBBI Distribution - November 2013

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	22	9	6		7	7	10	4	30		6	4	17	11	27	85	28	4	4		529
All Gonorrhea Infections	36	3	1	1		1	3			4				1		10	35	6		1		102
All Syphilis Infections	21					1				1												23
GC and CT Infections	18		1			1	2			2				1		4	20	3				52

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

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

\*\*\* OOP=Out of Province

# epiSUMMARY

## Manitoba Monthly Surveillance Report

December 2013

Reportable Diseases	Monthly Cases		Monthly Rate (95%CI) (Per 1,000,000)		Current Month Cases by RHA						Year-to-Date Cases		
Disease or Organism Name	Current	3-Year-Average	Current	3-Year-Average	WRHA	IERHA	NRHA	PMH	SH	Unk	2013	2012	Change
<i>Enterics</i>													
C. PERFRINGENS	2	0	1.6 (0.2-5.7)	0.0 (0.0-3.0)	2	0	0	0	0	0	7	2	5
CRYPTOSPORIDIOSIS	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	0	0	0	0	2	0	40	41	-1
SHIGELLOSIS	1	2	0.8 (0.0-4.4)	1.6 (0.2-5.8)	0	0	1	0	0	0	23	74	-51
E. COLI-VEROTOXIGENIC	2	3	1.6 (0.2-5.7)	2.4 (0.5-7.0)	0	0	0	0	2	0	29	36	-7
GIARDIASIS	3	7	2.4 (0.5-6.9)	5.6 (2.3-11.5)	0	1	0	2	0	0	87	112	-25
CAMPYLOBACTER	9	9	7.1 (3.2-13.4)	7.2 (3.3-13.7)	3	3	0	0	3	0	206	250	-44
SALMONELLOSIS	19	15	14.9 (9.0-23.3)	12.0 (6.7-19.8)	3	0	0	9	7	0	223	177	46
<i>VPD</i>													
MENINGOCOCCAL INVASIVE DISEASE	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	2	0	0	0	0	0	9	2	7
H.INFLUENZAE	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	0	1	1	0	0	0	14	15	-1
PERTUSSIS	1	6	0.8 (0.0-4.4)	4.8 (1.8-10.4)	0	0	0	0	1	0	6	120	-114
PNEUMOCOCCAL INVASIVE DISEASE	5	14	3.9 (1.3-9.2)	11.2 (6.1-18.8)	2	0	1	0	2	0	130	153	-23
<i>Respiratory Diseases and TB</i>													
TB - NON-RESP.	1	1	0.8 (0.0-4.4)	0.8 (0.0-4.5)	1	0	0	0	0	0	24	20	4
INFLUENZA B	2	3	1.6 (0.2-5.7)	2.4 (0.5-7.0)	1	0	0	0	1	0	104	226	-122

Reportable Diseases	Monthly Cases		Monthly Rate (95%CI) (Per 1,000,000)		Current Month Cases by RHA						Year-to-Date Cases		
Disease or Organism Name	Current	3-Year-Average	Current	3-Year-Average	WRHA	IERHA	NRHA	PMH	SH	Unk	2013	2012	Change
TB - RESP.	18	9	14.2 (8.4-22.4)	7.2 (3.3-13.7)	5	0	13	0	0	0	146	117	29
INFLUENZA A	42	137	33.0 (23.8-44.7)	109.5 (92.0-129.5)	16	7	10	1	8	0	517	179	338
<i>STBBI</i>													
HEPATITIS B	1	0	0.8 (0.0-4.4)	0.0 (0.0-3.0)	1	0	0	0	0	0	6	3	3
HIV	5	6	3.9 (1.3-9.2)	4.8 (1.8-10.4)	3	0	0	1	1	0	118	71	47
SYPHILIS	22	7	17.3 (10.8-26.2)	5.6 (2.3-11.5)	19	1	1	0	1	0	248	96	152
HEPATITIS C	26	20	20.5 (13.4-30.0)	16.0 (9.8-24.7)	12	4	2	5	3	0	304	346	-42
GONORRHEA	64	86	50.3 (38.8-64.3)	68.8 (55.0-84.9)	22	3	34	0	5	0	1218	1351	-133
CHLAMYDIA	448	456	352.4 (320.5-386.6)	364.6 (331.9-399.6)	188	34	139	41	46	0	6441	6582	-141
<i>EMD and Zoonotics</i>													
Q FEVER	1	0	0.8 (0.0-4.4)	0.0 (0.0-3.0)	0	0	1	0	0	0	2	0	2
LEGIONELLA	1	0	0.8 (0.0-4.4)	0.0 (0.0-3.0)	1	0	0	0	0	0	4	3	1
DENGUE	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	2	0	0	0	0	0	11	6	5
DIPHYLLOBOTHRIUM SPP	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	2	0	0	0	0	0	13	4	9
MALARIA	2	2	1.6 (0.2-5.7)	1.6 (0.2-5.8)	1	0	0	1	0	0	14	18	-4
STRONGYLOIDES	1	2	0.8 (0.0-4.4)	1.6 (0.2-5.8)	1	0	0	0	0	0	25	19	6
BLASTOMYCOSIS	1	2	0.8 (0.0-4.4)	1.6 (0.2-5.8)	0	0	1	0	0	0	19	14	5
<i>Non VPD</i>													
STREP. TOXIC SHOCK SYNDROME	1	0	0.8 (0.0-4.4)	0.0 (0.0-3.0)	0	0	1	0	0	0	5	0	5
VIRAL HEPATITIS, OTHER	1	0	0.8 (0.0-4.4)	0.0 (0.0-3.0)	1	0	0	0	0	0	3	2	1
NECROTIZING FASCIITIS (STREP.)	2	1	1.6 (0.2-5.7)	0.8 (0.0-4.5)	2	0	0	0	0	0	18	6	12
STREP. INVASIVE DISEASE	29	17	22.8 (15.3-32.8)	13.6 (7.9-21.8)	14	5	6	1	1	2	312	307	5
<i>ARO and Nosocomial Organisms</i>													
DATA NOT AVAILABLE													

## Notes and Abbreviations

### Notes:

1. 3-year-average cases / rate are defined as the average cases / rate reported in the same month over the previous three years.
2. Out-of-province cases are excluded.
3. The diseases where the current monthly rates are significantly higher than the previous 3-year average rates for the same month are highlighted yellow.
4. Syphilis: This includes both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status; staging information is needed to update infection status, which may not be available at time monthly report generated.
5. Hepatitis B: This includes confirmed cases of acute infection only, where both surface antigen (HBsAG) and core antibody (Anti-HBc IgM) are positive.

### Abbreviations:

ARO	Antibiotic Resistant Organisms
CI	Confidence Interval
EMD	Environmentally Mediated Diseases
IERHA	Interlake-Eastern Regional Health Authority
MRSA	Methicillin Resistant Staphylococcus Aureus
NRHA	Northern Regional Health Authority
PMH	Prairie Mountain Health
RHA	Regional Health Authority
STBBI	Sexually Transmitted & Blood-Borne Infections
TB	Tuberculosis
VPD	Vaccine Preventable Diseases
VRE	Vancomycin-Resistant Enterococci
VRSA	Vancomycin Resistant Staphylococcus Aureus
WNV	West Nile Virus
WRHA	Winnipeg Regional Health Authority