

## Manitoba Monthly Communicable Disease Report

Reported up to January 31, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 71% of all non-STI/HIV related communicable diseases reported to Manitoba Health during January 2010.

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

There were 563 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2010:

- 487 reported cases of chlamydia (Ct) only
- 40 reported cases of gonorrhoea (GC) only
- 29 reported co-infections of Ct and GC and
- 7 reported cases of syphilis

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

In January 2010, there were no cases of Hepatitis B virus (HBV), 19 cases of Hepatitis C virus (HCV) and 9 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in January 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Streptococcus Pneumoniae, Other Sterile Site – 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Toxoplasmosis – 1 positive lab-confirmed case reported; less than 1 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during December ('04-'08), January ('05-'09), and February ('05-'09).

## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR JANUARY 2010

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	1	3	3	0-6	1	3
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	10	7		***	10	7
116.0	BLASTOMYCOSIS	1			***	1	
005.1	BOTULISM				***		
023	BRUCELLOSIS		1	0	0-1		1
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	19	15	14	7-21	19	15
558.2	CLOSTRIDIUM DIFFICILE	80	74		***	80	74
046.1	CREUTZFELD-JACOB DISEASE	1			***	1	
007.8	CRYPTOSPORIDIOSIS	3		2	0-5	3	
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		
032	DIPHThERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1		
008.0	E. COLI-VEROTOXIGENIC	4	4	3	0-7	4	4
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	4	5	8	2-14	4	5
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)	1			***	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	32	19	28	16-40	32	19
487.1A	INFLUENZA A (NON-pH1N1)****	1			***	1	
487.1B	INFLUENZA B	1			***	1	
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		
88.81	LYME DISEASE			0	0-1		
084	MALARIA	1	1	1	0-3	1	1
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY		1		***		1
036.2	MENINGOCOCCAL BLOOD			0	0-1		
B95.6	MRSA	209	227	144	51-237	209	227
072.9	MUMPS	1		0	0-1	1	
036.89	N.MENINGITIDIS OTHER	1		0	0-1	1	
728.86	NECROTIZING FASCIITIS	2		1	0-4	2	
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		3	0-10	1	
038.2	PNEUM. SEPTICEMIA	13	14	8	2-14	13	14
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were 2 cases of pH1N1 in January 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR JANUARY 2010

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-1		
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		2	0	0-1		2
003.0	SALMONELLA	22	23	16	3-29	22	23
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	4	2	2	0-5	4	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 STERILE	9	9		***	9	9
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	2	3	1	0-5	2	3
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS		1	0	0-0		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	2	2	0-4	2	2
010	TUBERCULOSIS - PRIM.	1		1	0-3	1	
011	TUBERCULOSIS - RESP	2	3	7	1-13	2	3
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	6	7		***	6	7
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3		
		<b>436</b>	<b>423</b>			<b>436</b>	<b>423</b>

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JANUARY 2010

ICD9	Disease Name	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing Age/Gend	Total
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
006.9	AMEBIASIS							1						2															3
038.0	BETA STREP SEPTICEMIA	1												1							1		1		1	1	1		7
023	BRUCELLOSIS													1															1
008.43	CAMPYLOBACTER	1	1					1	1	1		1		1	1		2	1	1	1	2								15
558.2	CLOSTRIDIUM DIFFICILE					1				1				1	1	2	2		3	4	10	4	6	12	18	9			74
008.0	E. COLI 0157											2				1		1											4
007.1	GIARDIA LAMBLIA				1			1						1			2												5
070.51	HEPATITIS C											1		2	2	1	5		2		4		1				1		19
084	MALARIA							1																					1
036.82	MENINGOCOCCAL ARTHROPATHY																1												1
B95.6	MRSA	4	9	13	7	9	2	7	13	10	4	5	8	6	14	6	16	11	10	16	15	5	5	5	14	8	5		227
038.2	PNEUM. SEPTICEMIA				1								1			2			2	2	2	1	1		2				14
003.0	SALMONELLA	1			1		1		1		1	1	1			3		4	1	2	1	2		1		2			23
004	SHIGELLOSIS				1									1															2
041.1	STREP PYOGENES - OTHER ST															1	2		2				3		1				9
041.2	STREP.PNEUM.OTHER																									2			2
127.2	STRONGYLOIDIASIS				1				1									1											3
130.9	TOXOPLASMOSIS						1																						1
013	TUBERCULOSIS - NON-RESP.								1										1										2
011	TUBERCULOSIS - RESP																		3										3
B96.8	VANCOMYCIN RES. ENTER.											1			1					1		1		1		1	1		7
		7	10	13	12	10	4	9	19	12	5	9	12	15	19	15	30	20	22	25	28	20	14	14	29	32	16		423

## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JANUARY 2010

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>				<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>				
006.9	AMEBIASIS	3																					3
038.0	BETA STREP SEPTICEMIA	5										1						1					7
023	BRUCELLOSIS	1																					1
008.43	CAMPYLOBACTER	10	1				1				2							1					15
558.2	CLOSTRIDIUM DIFFICILE	46	5		4		4		6		2	1	3				1	2					74
008.0	E. COLI 0157	3					1																4
007.1	GIARDIA LAMBLIA	3									1		1										5
070.51	HEPATITIS C	8	1				1	1	2		2				2		1		1				19
084	MALARIA	1																					1
036.82	MENINGOCOCCAL ARTHROPATHY	1																					1
B95.6	MRSA	80	3	5	1		1	4	5	1	2	3	4	4	2	5	10	91	6				227
038.2	PNEUM. SEPTICEMIA	8					2											4					14
003.0	SALMONELLA	12	2		1				1		3		1	1					2				23
004	SHIGELLOSIS	2																					2
041.1	STREP PYOGENES - OTHER ST	5								1			1	1		1							9
041.2	STREP.PNEUM.OTHER	1									1												2
127.2	STRONGYLOIDIASIS	3																					3
130.9	TOXOPLASMOSIS																	1					1
013	TUBERCULOSIS - NON-RESP.																	1	1				2
011	TUBERCULOSIS - RESP			1													1	1					3
B96.8	VANCOMYCIN RES. ENTER.	6															1						7
		198	12	6	6		10	5	14	2	13	4	11	6	4	6	14	102	10				423

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

**STD Infection Summary Report - January 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	644	516	644	516
All Gonorrhea Infections (including PRNG)	126	69	126	69
All Syphilis Infections	2	7	2	7
Gonorrhea & Chlamydia Co-infections	57	29	57	29
HIV	14	9	14	9

**Total Number of STD Cases by Age and Gender - January 2010**

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					5	1	111	38	110	57	41	41	30	30	10	4	2	5		1						487
Gonorrhea Only Cases									3	5	4	5	7	3	5	3		3		2								40
Syphilis Only Cases							1	2	1				1						1	1								7
GC and CT Cases		1			1		6	3	124	46	120	66	50	46	35	36	10	7	2	8	1	1						563
HIV												1	1	1	1	1	1	3										9

**Regional STD Distribution - January 2010**

Disease/Infection Case Referred to:*	Winnipeg		Brandon		N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill		OOP		Missing		TOTAL
	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P	
All Chlamydia Infections	268		24		15	7		8	9	14	1	21		14	2	4	6	30	64	18		1		8		2	516
All Gonorrhea Infections	29				6	2		1	1		2	2					3	1	15	4		1		1		1	69
All Syphilis Infections	6		1																								7
GC and CT Infections	11				2	1		1			1	1					2	1	7	2							29

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

## Manitoba Monthly Communicable Disease Report

Reported up to February 28, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 70% of all non-STI/HIV related communicable diseases reported to Manitoba Health during February 2010.

- The number of reported cases of MRSA was above the statistically expected range in February 2010 – 243 positive lab-confirmed cases reported; less than 228 expected in an average month.

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

There were 608 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in February 2010:

- 518 reported cases of chlamydia (Ct) only
- 41 reported cases of gonorrhoea (GC) only
- 41 reported co-infections of Ct and GC and
- 8 reported cases of syphilis

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

In February 2010, there were no cases of Hepatitis B virus (HBV), 23 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 February 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Diphtheria Carriers – 4 positive lab-confirmed cases reported; less than 2 expected in an average month. No cases appear to be epidemiologically-linked or outbreak-associated.
- Rubella – 1 positive lab-confirmed case reported; less than 1 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, 2005-2009.



## **Explanatory Notes:**

### **General:**

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

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

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

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

### **Disease specific information:**

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

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

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

# SUMMARY OF COMMUNICABLE DISEASE FOR FEBRUARY 2010

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	2	4	3	1-5	3	8
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	10	11		***	20	18
116.0	BLASTOMYCOSIS				***	1	
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		1
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	16	13	14	8-20	35	29
558.2	CLOSTRIDIUM DIFFICILE	58	76		***	138	150
046.1	CREUTZFELD-JACOB DISEASE				***	1	
007.8	CRYPTOSPORIDIOSIS	2	1	2	0-5	5	1
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		4	0	0-1		4
032	DIPHTheria CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1		
008.0	E. COLI-VEROTOXIGENIC	6	3	3	0-6	10	7
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	9	6	8	2-14	13	13
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	1	1	1	0-3	1	1
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	29	23	30	16-44	61	42
487.1A	INFLUENZA A (NON-pH1N1)****	14			***	15	
487.1B	INFLUENZA B	10			***	11	
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		
88.81	LYME DISEASE			0	0-0		
084	MALARIA	3	1	1	0-3	4	2
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			1	0-2		
036.82	MENINGOCOCCAL ARTHROPATHY				***		1
036.2	MENINGOCOCCAL BLOOD			0	0-1		
B95.6	MRSA	171	243	141	55-227	380	470
072.9	MUMPS	2		0	0-1	3	
036.89	N.MENINGITIDIS OTHER	1	1	0	0-1	2	1
728.86	NECROTIZING FASCIITIS	1	2	1	0-3	3	2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS			2	0-7	1	
038.2	PNEUM. SEPTICEMIA	3	13	9	3-15	16	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 the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in February 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR FEBRUARY 2010

ICD9	Disease Name	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER		1	0	0-1		1
056.9	RUBELLA		1	0	0-0		1
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-3		2
003.0	SALMONELLA	14	24	18	5-31	36	50
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	5	1	2	0-5	9	3
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	9	11		***	18	20
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	2		1	0-3	4	3
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-0		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	4	3	2	0-4	6	5
010	TUBERCULOSIS - PRIM.			1	0-5	1	
011	TUBERCULOSIS - RESP	8	4	7	1-13	10	7
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID			0	0-1	1	
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	8	11		***	14	18
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3		
		<b>388</b>	<b>458</b>			<b>824</b>	<b>889</b>

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR FEBRUARY 2010

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									4
038.0	BETA STREP SEPTICEMIA	1	1															2	1		1	2	1		1	1			11
008.43	CAMPYLOBACTER	2			1							4				1			2	1		1		1					13
558.2	CLOSTRIDIUM DIFFICILE			1			1			1		2			2	4		5	1	1	1	5	8	8	7	18	11		76
007.8	CRYPTOSPORIDIOSIS							1																					1
V02.4	DIPH. CARRIERS								1						1		1		1										4
008.0	E. COLI 0157															1	1		1										3
007.1	GIARDIA LAMBLIA				1	1			1							1	2												6
070.1	HEPATITIS A												1																1
070.51	HEPATITIS C												1	1		2	4	4	4	1	5	1							23
084	MALARIA	1																											1
B95.6	MRSA	6	7	16	15	14	11	8	3	8	5	10	7	7	9	16	12	11	13	7	11	7	8	7	6	9	10		243
728.86	NECROTIZING FASCIITIS																	1								1			2
036.89	NEISSERIA MGTS(Other)																					1							1
038.2	PNEUM. SEPTICEMIA			1						1						1	3	1	2	1		1		1	1				13
083.0	Q. FEVER																	1											1
056.9	RUBELLA															1													1
003.0	SALMONELLA	1		1		1	1	1	1	1	1	1		1		3		5	1	1	1		3						24
004	SHIGELLOSIS															1													1
041.1	STREP PYOGENES - OTHER ST	1	2			1						1				2			1	1	1	1							11
013	TUBERCULOSIS - NON-RESP.											1	1							1									3
011	TUBERCULOSIS - RESP															1	1	1							1				4
B96.8	VANCOMYCIN RES. ENTER.									1								2		1	1	1	1		3	1			11
		12	10	20	17	17	13	10	6	11	7	14	15	10	12	30	23	33	26	19	24	16	25	16	19	31	22		458

## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR FEBRUARY 2010

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					
006.9	AMEBIASIS	4																			4	
038.0	BETA STREP SEPTICEMIA	7	1						1		2										11	
008.43	CAMPYLOBACTER	7			2				3		1										13	
558.2	CLOSTRIDIUM DIFFICILE	51	4		6	1	3		4		2		3				1				76	
007.8	CRYPTOSPORIDIOSIS										1										1	
V02.4	DIPH. CARRIERS															4					4	
008.0	E. COLI 0157	2					1														3	
007.1	GIARDIA LAMBLIA	4			1				1												6	
070.1	HEPATITIS A	1																			1	
070.51	HEPATITIS C	15	2		1		2						1		1	1					23	
084	MALARIA	1																			1	
B95.6	MRSA	69	1	10	3		1	2	3		4	1	1	2	5	1	5	129	5	1	243	
728.86	NECROTIZING FASCIITIS	1															1				2	
036.89	NEISSERIA MGTS(Other)	1																			1	
038.2	PNEUM. SEPTICEMIA	7		2		1			2								1				13	
083.0	Q. FEVER														1						1	
056.9	RUBELLA	1																			1	
003.0	SALMONELLA	12			3		1		1		2		2		1	2					24	
004	SHIGELLOSIS			1																	1	
041.1	STREP PYOGENES - OTHER ST	6														4			1		11	
013	TUBERCULOSIS - NON-RESP.	2															1				3	
011	TUBERCULOSIS - RESP	3														1					4	
B96.8	VANCOMYCIN RES. ENTER.	7			1		2		1												11	
		201	8	12	5		16	3	12		17	1	9	2	11	1	8	143	7	1	1	458

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

**STD Infection Summary Report - February 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	516	559	1160	1075
All Gonorrhea Infections (including PRNG)	105	82	231	151
All Syphilis Infections	4	8	6	15
Gonorrhea & Chlamydia Co-infections	46	41	103	70
HIV	7	13	21	22

**Total Number of STD Cases by Age and Gender - February 2010**

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					5	2	143	40	98	47	65	34	30	27	9	13	1	3								518
Gonorrhea Only Cases					1		1		10	4	2	1	5	5	3	4		2	1	2								41
Syphilis Only Cases			1		1								1	1	1				1	1	1							8
GC and CT Cases							2	1	12	5	12	5	2	2														41
HIV		1	1		2		8	3	165	49	112	53	73	42	34	31	9	15	2	6	1	1						608
									1		1				3	4	1	2		1								13

**Regional STD Distribution - February 2010**

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
<i>Case Referred to:*</i>			<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>	<i>F</i>	<i>P</i>				
All Chlamydia Infections	279	17	9	10		10	12	20		33		13	4	11	7	28	74	26		6		559
All Gonorrhea Infections	33					1	2			6				1	3	4	23	7		2		82
All Syphilis Infections	6											1			1							8
GC and CT Infections	14					1	1			3					1	2	15	4				41

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

## Manitoba Monthly Communicable Disease Report

Reported up to March 31, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 68% of all non-STI/HIV related communicable diseases reported to Manitoba Health during March 2010.

- The number of reported cases of MRSA was above the statistically expected range in March 2010 – 235 positive lab-confirmed cases reported; less than 215 expected in an average month.

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

There were 670 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in March 2010:

- 559 reported cases of chlamydia (Ct) only
- 54 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 STI. Females between the ages of 15 and 24 years comprised 46% of all reported chlamydia cases in the province.

The nine syphilis cases in March 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In March 2010, there were no cases of Hepatitis B virus (HBV), 32 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 March 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Meningococemia, Blood – 2 positive lab-confirmed case reported; less than 2 expected in an average month.
- Tetanus – 1 positive lab-confirmed case reported; less than 1 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, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	3	3	4	0-8	6	12
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS	1		0	0-1	1	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	14	9		***	34	27
116.0	BLASTOMYCOSIS	1			***	2	
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	14	15	16	3-29	50	46
558.2	CLOSTRIDIUM DIFFICILE	82	88		***	220	238
046.1	CREUTZFELD-JACOB DISEASE				***	1	
007.8	CRYPTOSPORIDIOSIS	1	2	1	0-3	6	3
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	1		0	0-2	1	4
032	DIPHThERIA CASES		1	0	0-1		3
123.4	DIPHYLLOBOTHRIUM SPP	1		0	0-1	1	
008.0	E. COLI-VEROTOXIGENIC	3	2	3	0-7	13	9
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	12	10	8	3-13	25	26
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	3		2	0-4	4	2
070.3	HEPATITIS B	2		1	0-3	2	
070.51	HEPATITIS C	41	32	30	16-44	102	74
487.1A	INFLUENZA A (NON-pH1N1)****	22			***	37	
487.1B	INFLUENZA B	21			***	32	
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		
088.81	LYME DISEASE			0	0-0		
084	MALARIA	1	1	1	0-3	5	3
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY		1		***	2	
036.2	MENINGOCOCCAL BLOOD		2	0	0-1		2
B95.6	MRSA	186	235	133	52-214	566	706
072.9	MUMPS			0	0-1	3	
036.89	N.MENINGITIDIS OTHER	2		0	0-1	4	
728.86	NECROTIZING FASCIITIS			1	0-2	3	2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS		2	2	0-9	1	2
038.2	PNEUM. SEPTICEMIA	10	9	9	2-16	26	37
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in March 2010.

**SUMMARY OF COMMUNICABLE DISEASE FOR March 2010**

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER	1	1	0	0-1	1	2
056.9	RUBELLA			0	0-1		1
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	3	3	1	0-4	3	5
003.0	SALMONELLA	16	24	16	4-28	52	78
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	3	4	2	0-5	12	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	6	7		***	24	27
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		1	0	0-2	4	4
037	TETANUS		1	0	0-0		1
130.9	TOXOPLASMOSIS			0	0-0		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	1	2	2	0-6	7	7
010	TUBERCULOSIS - PRIM.			1	0-5	1	
011	TUBERCULOSIS - RESP	12	7	8	4-12	22	14
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID		1	0	0-1	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	1	15		***	15	33
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			1	0-3		
		<b>464</b>	<b>478</b>			<b>1289</b>	<b>1379</b>

# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR MARCH 2010

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
038.0	BETA STREP SEPTICEMIA		1									1					1		2		1		1		2				9
008.43	CAMPYLOBACTER		1	1			1					1	1	1	1		1		1	2	1	1	1	1					15
558.2	CLOSTRIDIUM DIFFICILE					1								3		2	2	7		6	4	10	7	5	7	21	13		88
007.8	CRYPTOSPORIDIOSIS													1				1											2
032	DIPH. CASES						1																						1
008.0	E. COLI 0157															1						1							2
007.1	GIARDIA LAMBLIA			1	1		1		1	1		2		1				1							1				10
070.51	HEPATITIS C									1		3	2	1	2	5	5	3	2	2	2	4							32
084	MALARIA																				1								1
036.82	MENINGOCOCCAL ARTHROPATHY												1																1
036.2	MENINGOCOCCEMIA(MGCCEMIA		1																							1			2
B95.6	MRSA	3	11	8	25	10	4	10	4	7	5	7	2	11	7	19	10	16	17	6	5	12	5	6	9	8	8		235
033.0	PERTUSSIS	2																											2
038.2	PNEUM. SEPTICEMIA								1		1	1				1		2				1	1			1			9
083.0	Q. FEVER																	1											1
003.0	SALMONELLA	1		1	5		1		1		1			1		4		1	3	2	1		1			1			24
004	SHIGELLOSIS									2		1			1														4
041.1	STREP PYOGENES - OTHER ST															1		1	2	1	1	1							7
041.2	STREP.PNEUM.OTHER		1			1												1											3
127.2	STRONGYLOIDIASIS											1																	1
037	TETANUS																	1											1
013	TUBERCULOSIS - NON-RESP.									1						1													2
011	TUBERCULOSIS - RESP							1									1	1		2	1				1				7
002.0	TYPHOID																				1								1
B96.8	VANCOMYCIN RES. ENTER.											1		1				1		1	3	2	1	1	4				15
		6	15	11	31	12	9	10	8	12	7	14	8	20	12	31	19	36	28	19	20	33	23	14	19	36	25		<b>478</b>

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## SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR MARCH 2010

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ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP**	Missing	TOTAL
Case Referred to:*				F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
006.9	AMEBIASIS	3																					3
038.0	BETA STREP SEPTICEMIA	5					1	1			1				1								9
008.43	CAMPYLOBACTER	7					4		2		1			1									15
558.2	CLOSTRIDIUM DIFFICILE	55	4				1		12		7			5		2		1	1				88
007.8	CRYPTOSPORIDIOSIS	2																					2
032	DIPH. CASES																	1					1
008.0	E. COLI 0157	1													1								2
007.1	GIARDIA LAMBLIA	5					1						2		1			1					10
070.51	HEPATITIS C	24	2		1		2		1		1						1						32
084	MALARIA										1												1
036.82	MENINGOCOCCAL ARTHROPATHY	1																					1
036.2	MENINGOCOCCEMIA(MGCCEMIA								2														2
B95.6	MRSA	70	2	4	2		3		7		3		3	3	4	2	11	113	8				235
033.0	PERTUSSIS	2																					2
038.2	PNEUM. SEPTICEMIA	4							1		1		2						1				9
083.0	Q. FEVER										1												1
003.0	SALMONELLA	7		1	2		3		2		5		2					1	1				24
004	SHIGELLOSIS	3																1					4
041.1	STREP PYOGENES - OTHER ST	5															1		1				7
041.2	STREP.PNEUM.OTHER	1																2					3
127.2	STRONGYLOIDIASIS	1																					1
037	TETANUS																1						1
013	TUBERCULOSIS - NON-RESP.	1														1							2
011	TUBERCULOSIS - RESP	5										1						1					7
002.0	TYPHOID	1																					1
B96.8	VANCOMYCIN RES. ENTER.	7			1				2		2		1					1	1				15
		210	8	5	6		15	1	29		23	1	16	3	9	3	15	122	12				478

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - March 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	611	607	1771	1681
All Gonorrhea Infections (including PRNG)	115	102	346	253
All Syphilis Infections*	8	9	14	24
Gonorrhea & Chlamydia Co-infections	53	48	156	118
HIV	9	12	30	34

**Total Number of STBBI Cases by Age and Gender - March 2010**

Disease Name	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing	TOTAL
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gender	
Chlamydia Only Cases		1					4	2	140	46	116	66	55	44	34	30	6	10	3	1		1						559
Gonorrhea Only Cases							2	1	5	8	9	5	6	7	2	7	1		1									54
Syphilis Only Cases											1		1		1	1	1			1	2		1					9
GC and CT Cases							1		17	4	6	10	3	1	2	3				1								48
<b>TOTAL</b>		1					7	3	162	58	132	81	65	52	38	41	8	11	3	2	1	4		1				670
HIV									1	1	1	1	1	1	1	3	1	2										12

**Regional STBBI Distribution - March 2010**

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	323	19	13	12		7	20	13		32		13	2	15	5	21	80	26	1	5		607
All Gonorrhea Infections	51	1	4			1	2	1		4		1			2	2	25	4	2	2		102
All Syphilis Infections	5					1				1										1	1	9
GC and CT Infections	24		1				2			1					1	1	14	3		1		48

\* The nine cases in March 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 64% of all non-STI/HIV related communicable diseases reported to Manitoba Health during April 2010.

- The number of reported cases of MRSA was above the statistically expected range in April 2010 – 225 positive lab-confirmed cases reported; less than 212 expected in an average month.

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

There were 627 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in April 2010:

- 530 reported cases of chlamydia (Ct) only
- 58 reported cases of gonorrhoea (GC) only
- 34 reported co-infections of Ct and GC and
- 5 reported cases of syphilis

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

The five syphilis cases in April 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In April 2010, there were no cases of Hepatitis B virus (HBV), 27 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 April 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Diphtheria Cases – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Pneum. Septicemia – 18 positive lab-confirmed cases reported; less than 18 expected in an average month.
- Tuberculosis - Non-Resp. – 6 cases reported (3 positive lab-confirmed cases); less than 5 expected in an average month. Case reviews show no apparent cause for this slight increase or any relationship between the cases diagnosed.
- *Yersinia Enterocolitica* – 4 cases reported; less than 3 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during March, April and May, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	5	3	4	0-8	11	15
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1	1	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	14	5		***	48	32
116.0	BLASTOMYCOSIS		1		***	2	1
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	23	11	17	3-31	73	58
558.2	CLOSTRIDIUM DIFFICILE	70	75		***	290	314
046.1	CREUTZFELD-JACOB DISEASE				***	1	
007.8	CRYPTOSPORIDIOSIS	3	3	1	0-3	9	6
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-2	1	4
032	DIPHTHERIA CASES		1	0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	1	
008.0	E. COLI-VEROTOXIGENIC	1	5	3	0-8	14	14
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	8	9	9	4-14	33	35
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)	2		0	0-1	2	
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		
070.1	HEPATITIS A	3		2	0-4	7	2
070.3	HEPATITIS B			1	0-3	2	
070.51	HEPATITIS C	28	27	32	16-48	130	101
487.1A	INFLUENZA A (NON-pH1N1)****	16			***	53	
487.1B	INFLUENZA B	4			***	36	
482.83	LEGIONELLA		1	0	0-1		1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		
088.81	LYME DISEASE			0	0-0		
084	MALARIA	1	1	1	0-4	6	4
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD			0	0-1		2
B95.6	MRSA	179	225	131	50-212	745	931
072.9	MUMPS		1	0	0-2	3	1
036.89	N.MENINGITIDIS OTHER			0	0-1	4	
728.86	NECROTIZING FASCIITIS		2	1	0-3	3	4
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	12	7	2	0-8	13	9
038.2	PNEUM. SEPTICEMIA	10	18	10	3-17	36	55
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in April 2010.



# SUMMARY OF COMMUNICABLE DISEASE FOR April 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-1	1	2
056.9	RUBELLA			0	0-1		1
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		3	1	0-4	3	8
003.0	SALMONELLA	17	16	17	5-29	69	95
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	1	2	1	0-3	13	9
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		***	31	30
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES			1	0-5	4	4
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS			0	0-1		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.		6	2	0-4	7	12
010	TUBERCULOSIS - PRIM.	3	1	2	0-6	4	1
011	TUBERCULOSIS - RESP	12	12	10	4-16	34	27
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID			0	0-1	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	4	30		***	19	63
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL Syndrome				***		
008.44	YERSINIA ENTEROCOLITICA	2	4	1	0-2	2	4
		<b>425</b>	<b>472</b>			<b>1714</b>	<b>1854</b>

## SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR April 2010

ICD9		<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
038.0	BETA STREP SEPTICEMIA		2														1						1		1				5
116.0	BLASTOMYCOSIS															1													1
008.43	CAMPYLOBACTER			2	1					1				1	1	1					2	1	1						11
558.2	CLOSTRIDIUM DIFFICILE	2										1				5	1	3	2	6	6	6	4	4	9	21	5		75
007.8	CRYPTOSPORIDIOSIS									1		1						1											3
032	DIPH. CASES													1															1
008.0	E. COLI 0157				2							1		1		1													5
007.1	GIARDIA LAMBLIA			2	2	1								1	1			1			1								9
070.51	HEPATITIS C											3	1	1	1	1	4	3	5	2	4					1		1	27
482.83	LEGIONELLA																	1											1
084	MALARIA																	1											1
B95.6	MRSA	6	8	15	11	10	7	7	5	9	9	10	6	9	11	12	8	3	8	7	5	6	14	8	7	17	7		225
072.9	MUMPS																	1											1
728.86	NECROTIZING FASCIITIS																			1				1					2
033.0	PERTUSSIS		1	1	1	1	1		1	1																			7
038.2	PNEUM. SEPTICEMIA	1	1	1	1					1								1	1	3	1	1	1	1	1	1	3		18
003.0	SALMONELLA					1			2	1	2			1	1		1	3		1		1		1		1			16
004	SHIGELLOSIS															2													2
041.1	STREP PYOGENES - OTHER ST				1											1		1											3
041.2	STREP.PNEUM.OTHER														1					1			1						3
013	TUBERCULOSIS - NON-RESP.													1		1				1		2				1			6
010	TUBERCULOSIS - PRIM.				1																								1
011	TUBERCULOSIS - RESP.							1	1	1					2	1	1	2	2		1								12
B96.8	VANCOMYCIN RES. ENTER.																		1	3	2	3	5	6	7	3			30
008.44	YERSINIA ENTEROCOLITICA					1								1		1		1											4
		9	12	21	20	13	9	8	10	14	12	16	7	17	17	24	19	17	25	19	27	19	23	20	25	49	19		472

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR April 2010

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
038.0	BETA STREP SEPTICEMIA	2								1		1						1					5
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	5	2			1				2				1									11
558.2	CLOSTRIDIUM DIFFICILE	41	5		1	3		5		4		8		2		2	2	2	2				75
007.8	CRYPTOSPORIDIOSIS	1				1						1											3
032	DIPH. CASES																	1					1
008.0	E. COLI 0157	2				2				1													5
007.1	GIARDIA LAMBLIA		2			1		1		3		2											9
070.51	HEPATITIS C	17	2					1				1		3				1		2			27
482.83	LEGIONELLA							1															1
084	MALARIA													1									1
B95.6	MRSA	73	4	4	1	1	1	7		3		6	1	1	1	14	100	8					225
072.9	MUMPS	1																					1
728.86	NECROTIZING FASCIITIS	1															1						2
033.0	PERTUSSIS																7						7
038.2	PNEUM. SEPTICEMIA	11										1		2		2	2						18
003.0	SALMONELLA	10	1			3				1							1						16
004	SHIGELLOSIS																2						2
041.1	STREP PYOGENES - OTHER ST	1												1			1						3
041.2	STREP.PNEUM.OTHER	2				1																	3
013	TUBERCULOSIS - NON- RESP.	2										1					2	1					6
010	TUBERCULOSIS - PRIM.																1						1
011	TUBERCULOSIS - RESP.	10															2						12
B96.8	VANCOMYCIN RES. ENTER.	23			1			3				1		1				1					30
008.44	YERSINIA ENTEROCOLITICA	3				1																	4
		208	17	4	3		14	2	17		15		22	1	12	1	18	122	14		2		472

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

\*\* OOP=Out of Province

## STBBI Infection Summary Report - April 2010

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	559	564	2330	2244
All Gonorrhea Infections (including PRNG)	100	92	446	346
All Syphilis Infections*	2	5	16	29
Gonorrhea & Chlamydia Co-infections	47	34	203	152
HIV	12	8	42	42

## Total Number of STBBI Cases by Age and Gender - April 2010

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		8		130	34	114	83	49	29	30	28	8	6	3	4	1	1				1		530
Gonorrhea Only Cases									11	2	8	6	10	5	6	3	1	5		1								58
Syphilis Only Cases											1				2	1	1											5
GC and CT Cases							1		7	3	11	4	1		4	3												34
Total					1		9		148	39	134	93	60	34	40	36	10	12	3	5	1	1				1		627
HIV									1		2			1	2			1		1								8

## Regional STBBI Distribution - April 2010

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	288	24	20	10		15	10	11	1	27		18	5	10	2	36	64	18		5		564
All Gonorrhea Infections	43	1	6	1			2	1							3	8	16	7		3	1	92
All Syphilis Infections	5																					5
GC and CT Infections	16		2				1									5	8	1		1		34

\* The five syphilis cases in April 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

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

\*\*\*OOP=Out of Province

## Manitoba Monthly Surveillance Unit Report

Reported up to May 31, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 62% of all non-STBBI related communicable diseases reported to Manitoba Health during May 2010.

- The number of reported cases of MRSA was above the statistically expected range in May 2010 – 265 positive lab-confirmed cases reported; less than 221 expected in an average month.

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

There were 569 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in May 2010:

- 471 reported cases of chlamydia (Ct) only
- 56 reported cases of gonorrhoea (GC) only
- 37 reported co-infections of Ct and GC and
- 5 reported cases of syphilis

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

The five syphilis cases in May 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In May 2010, there were no cases of Hepatitis B virus (HBV), 23 cases of Hepatitis C virus (HCV) and 9 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in May 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Legionella – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Measles – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Pertussis – 10 positive lab-confirmed cases reported; less than 9 expected in an average month.
- Q Fever – 2 positive lab-confirmed cases reported; less than 1 expected in an average month.

- Shigellosis – 4 positive lab-confirmed cases reported; less than 4 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during April, May, and June, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	9	3	5	1-9	20	17
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS			0	0-1	1	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	18	14		***	66	46
116.0	BLASTOMYCOSIS		2		***	2	3
005.1	BOTULISM				***		
023	BRUCELLOSIS	1		0	0-1	1	
005.2	C. PERFRINGENS	2		0	0-1	2	
008.43	CAMPYLOBACTER	19	20	20	5-35	92	77
558.2	CLOSTRIDIUM DIFFICILE	71	70		***	361	384
046.1	CREUTZFELD-JACOB DISEASE	1			***	2	
007.8	CRYPTOSPORIDIOSIS			1	0-3	9	6
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPHTHERIA CARRIERS		2	0	0-2	1	6
032	DIPHTHERIA CASES			0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP			1	0-3	1	
008.0	E. COLI-VEROTOXIGENIC	3	4	5	0-14	17	18
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	12	8	10	3-17	45	46
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	2	
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-1		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	2		1	0-3	9	2
070.3	HEPATITIS B			1	0-3	2	
070.51	HEPATITIS C	30	23	31	16-46	159	124
487.1A	INFLUENZA A****	24			***	77	
487.1B	INFLUENZA B	2			***	38	
482.83	LEGIONELLA		1	0	0-0		2
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	1	1	0	0-1	1	1
088.81	LYME DISEASE			0	0-2		
084	MALARIA	1		2	0-6	7	4
055.9	MEASLES		1	0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***	2	
036.2	MENINGOCOCCAL BLOOD			0	0-0		2
B95.6	MRSA	147	265	138	56-220	892	1196
072.9	MUMPS	1		1	0-3	4	1
036.89	N.MENINGITIDIS OTHER			0	0-0	4	
728.86	NECROTIZING FASCIITIS		1	1	0-4	3	5
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	3	10	2	0-8	16	20
038.2	PNEUM. SEPTICEMIA	15	15	10	3-17	51	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 the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in May 2010.



# SUMMARY OF COMMUNICABLE DISEASE FOR May 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER		2	0	0-0	1	4
056.9	RUBELLA	2		0	0-1	2	1
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		2	1	0-3	3	10
003.0	SALMONELLA	26	9	18	6-30	95	106
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	1	4	1	0-3	14	13
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	5	3		***	36	33
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		2	1	0-5	4	6
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS	1	1	0	0-1	1	2
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	3	3	2	0-4	10	15
010	TUBERCULOSIS - PRIM.	2	1	1	0-3	6	2
011	TUBERCULOSIS - RESP	13	11	9	1-17	47	37
021.9	TULAREMIA	1		0	0-1	1	
002.0	TYPHOID			0	0-1	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	64		***	24	127
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			1	0-2	2	4
		<b>421</b>	<b>542</b>			<b>2134</b>	<b>2399</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 2010

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
038.0	BETA STREP SEPTICEMIA											1				1	1	1		2	1		1	3	2	1			14
116.0	BLASTOMYCOSIS								1											1									2
008.43	CAMPYLOBACTER				6				1		1		2	1	1		2		1	2	1		1	1					20
558.2	CLOSTRIDIUM DIFFICILE									2				1	2	3		2	2	8	2	5	4	5	7	20	7		70
V02.4	DIPHTHERIA CARRIERS		1				1																						2
008.0	E. COLI 0157									1				1	1			1											4
007.1	GIARDIA LAMBLIA			2	2		1											1	2										8
070.51	HEPATITIS C									1		2	1			1		3	4	2	7		1				1		23
482.83	LEGIONELLA																			1									1
027.0	LISTERIA MONOCYTOGENES																			1									1
055.9	MEASLES				1																								1
B95.6	MRSA	4	3	12	11	10	7	8	10	8	9	13	12	7	8	11	20	15	17	11	14	10	9	9	7	13	7		265
728.86	NECROTIZING FASCIITIS																					1							1
033.0	PERTUSSIS	1	3			1	3				1						1												10
038.2	PNEUM. SEPTICEMIA					1				1				1	1	2		1	1		2	1	1	1		2			15
083.0	Q. FEVER																							1					2
003.0	SALMONELLA			1						1		1	2				1	1	1	1									9
004	SHIGELLOSIS					1	1											1			1								4
041.1	STREP PYOGENES - OTHER ST	1									1				1														3
041.2	STREP.PNEUM.OTHER																1	1											2
127.2	STRONGYLOIDIASIS																	1				1							2
130.9	TOXOPLASMOSIS													1															1
013	TUBERCULOSIS - NON-RESP.													1	1					1									3
010	TUBERCULOSIS - PRIM.					1																							1
011	TUBERCULOSIS - RESP									1		1		1		2	3			2	1								11
B96.8	VANCOMYCIN RES. ENTER.				1							2		1		1		4	4	5	3	8	6	8	9	6	6		64
		6	7	15	22	14	15	8	12	14	13	18	15	16	16	21	25	36	32	31	37	29	22	25	28	43	21		542

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR MAY 2010

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
038.0	BETA STREP SEPTICEMIA	8	1					2		1				1				1					14
116.0	BLASTOMYCOSIS	2																					2
008.43	CAMPYLOBACTER	8	2			4		1		1		1						2	1				20
558.2	CLOSTRIDIUM DIFFICILE	38	10		2	8		1		5		4		1		1							70
V02.4	DIPHTHERIA CARRIERS			1														1					2
008.0	E. COLI 0157	1								1		1		1									4
007.1	GIARDIA LAMBLIA	4								2		2											8
070.51	HEPATITIS C	11	2	1		1		3		3		1		1									23
482.83	LEGIONELLA	1																					1
027.0	LISTERIA MONOCYTOGENES	1																					1
055.9	MEASLES	1																					1
B95.6	MRSA	92	2	5	4	3	2	5		4		4		3	1	22	109	8		1			265
728.86	NECROTIZING FASCIITIS							1															1
033.0	PERTUSSIS															1	9						10
038.2	PNEUM. SEPTICEMIA	10		1				1	1			1						1					15
083.0	Q. FEVER	1	1																				2
003.0	SALMONELLA	6	1									1		1									9
004	SHIGELLOSIS																	4					4
041.1	STREP PYOGENES - OTHER ST	2																1					3
041.2	STREP.PNEUM.OTHER	2																					2
127.2	STRONGYLOIDIASIS	2																					2
130.9	TOXOPLASMOSIS	1																					1
013	TUBERCULOSIS - NON-RESP.	2						1															3
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP	8		1														2					11
B96.8	VANCOMYCIN RES. ENTER.	48				2		8		1				1		1	2	1					64
		251	19	8	7		18	3	23	18		15		9	1	26	132	11		1			542

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - May 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	513	508	2843	2755
All Gonorrhea Infections (including PRNG)	79	93	525	439
All Syphilis Infections*	3	5	19	34
Gonorrhea & Chlamydia Co-infections	20	37	223	189
HIV	4	9	46	50

**Total Number of STBBI Cases by Age and Gender - May 2010**

Disease Name	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing	TOTAL
	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gender	
Chlamydia Only Cases						1	5	2	119	48	99	41	54	36	25	20	11	5	1	3		1						471
Gonorrhea Only Cases									6	2	6	8	6	6	8	9	2	2				1						56
Syphilis Only Cases													2								1	2						5
GC and CT Cases							1		9	3	7	2	6	3	2	2		1		1								37
<b>TOTAL</b>						1	6	2	134	53	112	51	68	45	35	31	13	8	1	4	1	4						569
HIV												1				2	2	2			1	1						9

**Regional STBBI Distribution - May 2010**

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									
All Chlamydia Infections	277	15	8	2	1	14	9	13	1	17	19	3	11	3	34	54	19		7	1	508
All Gonorrhea Infections	41	3	1			2	2		1		1		1	3	8	18	8		3	1	93
All Syphilis Infections	2							1				1								1	5
GC and CT Infections	13	2	1			1	2					1	1	2	9	3			2		37

\* The five cases in May 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 65% of all non-STBBI related communicable diseases reported to Manitoba Health during June 2010.

- The number of reported cases of MRSA was above the statistically expected range in June 2010 – 269 positive lab-confirmed cases reported; less than 246 expected in an average month.

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

There were 561 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in June 2010:

- 497 reported cases of chlamydia (Ct) only
- 27 reported cases of gonorrhoea (GC) only
- 31 reported co-infections of Ct and GC and
- 6 reported cases of syphilis

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

The six syphilis cases in June 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In June 2010, there were no cases of Hepatitis B virus (HBV), 29 cases of Hepatitis C virus (HCV) and 14 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in June 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Ascariasis (roundworm) – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Meningococemia (blood) – 1 positive lab-confirmed case reported; less than 1 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, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	5	3	4	0-9	25	21
022	ANTHRAX				***		
127.0	ASCARIASIS		1	0	0-0		1
005.8	B. CEREUS	1		0	0-1	2	
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	2	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	14	20		***	80	66
116.0	BLASTOMYCOSIS	1			***	3	3
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1	1	
005.2	C. PERFRINGENS			0	0-1	2	
008.43	CAMPYLOBACTER	12	27	23	10-36	104	104
558.2	CLOSTRIDIUM DIFFICILE	77	83		***	438	468
046.1	CREUTZFELD-JACOB DISEASE				***	2	
007.8	CRYPTOSPORIDIOSIS	1		2	0-6	10	6
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	1	6
032	DIPHTheria CASES			0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP		3	1	0-3	1	3
008.0	E. COLI-VEROTOXIGENIC		6	7	0-21	17	24
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	13	8	13	4-22	58	54
320.0	H.INFLUENZAE (CSF)			0	0-0		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	2	
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A	1		1	0-3	10	2
070.3	HEPATITIS B	1		1	0-2	3	
070.51	HEPATITIS C	28	29	31	17-45	187	153
487.1A	INFLUENZA A****	9			***	86	
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA		1	0	0-1		3
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	1	1
088.81	LYME DISEASE			1	0-4		
084	MALARIA		2	2	0-6	7	6
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD		1	0	0-0		3
B95.6	MRSA	217	269	157	69-245	1109	1465
072.9	MUMPS	1		1	0-3	5	1
036.89	N.MENINGITIDIS OTHER			0	0-0	4	
728.86	NECROTIZING FASCIITIS		3	2	0-6	3	8
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1	6	2	0-6	17	27
038.2	PNEUM. SEPTICEMIA	15	10	9	1-17	66	80
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in June 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR June 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-0	1	4
056.9	RUBELLA		1	0	0-1	2	2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-3	3	10
003.0	SALMONELLA	28	7	18	6-30	123	113
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS		1	1	0-2	14	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	2	7		***	38	40
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		1	1	0-5	4	7
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS			0	0-1	1	2
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1		
013	TUBERCULOSIS - NON-RESP.	1	5	2	0-5	11	21
010	TUBERCULOSIS - PRIM.		1	1	0-3	6	3
011	TUBERCULOSIS - RESP	15	12	9	1-17	61	48
021.9	TULAREMIA			0	0-1	1	
002.0	TYPHOID			0	0-0	1	1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	8	34		***	32	161
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			1	0-3	2	4
		<b>452</b>	<b>542</b>			<b>2585</b>	<b>2944</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 2010

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
127.0	ASCARIASIS													1															1
038.0	BETA STREP SEPTICEMIA					1										2	1	2		3		2	1	2	3	3			20
008.43	CAMPYLOBACTER	1			2		2		1	1	2	1	2	3		1	4			1	1		3	1	1				27
558.2	CLOSTRIDIUM DIFFICILE	1			1							1	1		1	3	1	3	3	4	5	4	10	10	8	19	8		83
123.4	DIPHYLLOBOTHRIUM														1	1				1									3
008.0	E. COLI 0157				1				1				1					1							1		1		6
007.1	GIARDIA LAMBLIA			1	1	1	1							1	1				1				1						8
070.51	HEPATITIS C											2		1	2	6	4	3	7	1	1		1	1					29
070.59	HEPATITIS OTHER (VIRAL)																									1			1
482.83	LEGIONELLA																	1											1
084	MALARIA									1				1															2
036.2	MENINGOCOCCEMIA(MGCCEMIA				1																								1
B95.6	MRSA	5	5	13	17	12	10	5	6	14	9	16	12	7	7	10	17	10	8	14	17	9	13	6	13	7	7		269
728.86	NECROTIZING FASCIITIS									1			1										1						3
033.0	PERTUSSIS	1	3			1		1																					6
038.2	PNEUM. SEPTICEMIA	1																1	1	1		2		1	2	1			10
056.9	RUBELLA													1															1
003.0	SALMONELLA				1				1									1	2						1	1			7
004	SHIGELLOSIS														1														1
041.1	STREP PYOGENES - OTHER ST		1													1	3		1			1							7
127.2	STRONGYLOIDIASIS																					1							1
013	TUBERCULOSIS - NON-RESP.																3		2										5
010	TUBERCULOSIS - PRIM.			1																									1
011	TUBERCULOSIS - RESP							1		1		2	1			1		1	2		1				1	1			12
B96.8	VANCOMYCIN RES. ENTER.				1								1	1	1		2	1	1	1	3	3	5	5	5	1	3		34
		9	9	15	25	15	13	7	9	17	12	22	19	16	14	25	36	23	28	25	32	19	37	25	34	34	22		542

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JUNE 2010

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
127.0	ASCARIASIS	1																					1
038.0	BETA STREP SEPTICEMIA	14	1	1								2						1	1				20
008.43	CAMPYLOBACTER	8	1				5		1		1	8		2				1					27
558.2	CLOSTRIDIUM DIFFICILE	46	5		1		5		6		9	4		4		1	1	1					83
123.4	DIPHYLLOBOTHRIUM	1									1	1											3
008.0	E. COLI 0157	1					1		1			1		1		1							6
007.1	GIARDIA LAMBLIA	3	1						1			2						1					8
070.51	HEPATITIS C	19		1				1	2		2	1		2							1		29
070.59	HEPATITIS OTHER (VIRAL)				1																		1
482.83	LEGIONELLA								1														1
084	MALARIA	2																					2
036.2	MENINGOCOCCEMIA(MGCCCEMIA	1																					1
B95.6	MRSA	69	6	5	4		5	1	8		2	2	1	8	4	9	138	5	2				269
728.86	NECROTIZING FASCIITIS	2					1																3
033.0	PERTUSSIS	2									1							3					6
038.2	PNEUM. SEPTICEMIA	8																2					10
056.9	RUBELLA	1																					1
003.0	SALMONELLA	4							2			1											7
004	SHIGELLOSIS																	1					1
041.1	STREP PYOGENES - OTHER ST	5									1								1				7
127.2	STRONGYLOIDIASIS	1																					1
013	TUBERCULOSIS - NON-RESP.	4																1					5
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP	7									2							3					12
B96.8	VANCOMYCIN RES. ENTER.	22		1	1		2	1	1	1	2	1				1	1						34
		223	14	8	7		19	3	23	3	19	24	1	17	4	12	153	8	3	1			542

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - June 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	525	528	3368	3277
All Gonorrhea Infections (including PRNG)	72	58	597	494
All Syphilis Infections*	5	6	24	35
Gonorrhea & Chlamydia Co-infections	25	31	248	219
HIV	7	14	53	60

**Total Number of STBBI Cases by Age and Gender - June 2010**

	<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					1		8	3	115	43	114	60	50	39	27	23	6	5	2	1							1	497
Gonorrhea Only Cases									5	2	4	3	2	2		3	1	3			1					1		27
Syphilis Only Cases														2	1	1		1					1					6
GC and CT Cases								1	7	4	6	6	4	1		1				1								31
TOTAL					1		8	4	127	49	124	69	56	44	28	28	7	9	2	2		1	1			1	1	561
HIV												1	1	3		5		1		3								14

**Regional STBBI Distribution - June 2010**

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	247	17	17	9	1	13	14	16	2	29		15	2	11	6	14	83	24	1	5	2	528
All Gonorrhea Infections	22	3	4			1		2		1				1	2	1	14	7				58
All Syphilis Infections	3									1				2								6
GC and CT Infections	9		3					1		1						1	11	5				31

\* The six cases in June 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 67% of all non-STBBI related communicable diseases reported to Manitoba Health during July 2010.

- The number of reported cases of MRSA was above the statistically expected range in July 2010 – 339 positive lab-confirmed cases reported; less than 318 expected in an average month.

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

There were 541 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in July 2010:

- 455 reported cases of chlamydia (Ct) only
- 43 reported cases of gonorrhoea (GC) only
- 38 reported co-infections of Ct and GC and
- 5 reported cases of syphilis

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

The five syphilis cases in July 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In July 2010, there were no cases of Hepatitis B virus (HBV), 32 cases of Hepatitis C virus (HCV) and 21 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in July 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Haemophilus Influenzae (CSF) – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Hemolytic Uremic Syndrome – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Meningococemia (blood) – 1 positive lab-confirmed case reported; less than 1 expected in an average month.
- Pertussis – 8 positive lab-confirmed cases reported; less than 7 expected in an average month.

- Shigellosis – 5 positive lab-confirmed cases reported; less than 4 expected in an average month.
- Strongyloides – 3 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Trypanosoma cruzi – 3 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Typhoid – 1 positive lab-confirmed case reported; less than 1 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, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS		3	3	0-7	25	24
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS			0	0-2	2	
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	3	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	16	11		***	96	77
116.0	BLASTOMYCOSIS	1	2		***	4	5
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1	1	
005.2	C. PERFRINGENS			0	0-1	2	
008.43	CAMPYLOBACTER	27	22	26	14-38	131	126
558.2	CLOSTRIDIUM DIFFICILE	70	64		***	508	532
046.1	CREUTZFELD-JACOB DISEASE				***	2	
007.8	CRYPTOSPORIDIOSIS	3	1	6	0-22	13	7
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	1	6
032	DIPHTHERIA CASES			0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP		3	1	0-4	1	6
008.0	E. COLI-VEROTOXIGENIC	5	3	11	0-37	22	28
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	10	6	15	6-24	68	63
320.0	H.INFLUENZAE (CSF)		1	0	0-0		1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	2	
041.59	HAEM. INFLUENZAE (non-B)				***	1	
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME		1	0	0-0		1
070.1	HEPATITIS A	1		1	0-3	11	2
070.3	HEPATITIS B			0	0-1	3	
070.51	HEPATITIS C	30	32	28	17-39	217	185
487.1A	INFLUENZA A****	2			***	88	
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA		1	0	0-1		4
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES	1		0	0-1	2	1
088.81	LYME DISEASE			1	0-4		
084	MALARIA		1	1	0-5	7	7
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD		1	0	0-0		4
B95.6	MRSA	236	339	193	69-317	1345	1804
072.9	MUMPS		1	1	0-3	5	2
036.89	N.MENINGITIDIS OTHER			0	0-1	4	
728.86	NECROTIZING FASCIITIS			2	0-6	3	8
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	2	8	2	0-6	19	35
038.2	PNEUM. SEPTICEMIA	5	7	8	1-15	71	87
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

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in July 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR July 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-0	1	4
082.0	RICKETTSIA RICKETTSII		1		***		1
056.9	RUBELLA			0	0-0	2	2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	1	1	0-3	4	11
003.0	SALMONELLA	22	24	19	8-30	145	137
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	2	5	1	0-3	16	20
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	17	12		***	55	52
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	1	3	0	0-1	5	10
037	TETANUS			0	0-1		1
130.9	TOXOPLASMOSIS			0	0-1	1	2
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI		3	0	0-1		3
013	TUBERCULOSIS - NON-RESP.	4	3	2	0-6	15	24
010	TUBERCULOSIS - PRIM.		1	1	0-3	6	4
011	TUBERCULOSIS - RESP	8	7	9	3-15	69	54
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID		1	0	0-0	1	2
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	12	29		***	44	190
005.4	VIBRIO PARAHAEMOLYTICUS		1		***		1
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				***		
008.44	YERSINIA ENTEROCOLITICA	2		1	0-3	4	4
		<b>479</b>	<b>599</b>			<b>3064</b>	<b>3548</b>

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

\*\* Mean +/- 2 standard deviations of

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



# SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JULY 2010

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
038.0	BETA STREP SEPTICEMIA					1						1				1	1		1	2		1		1		1	1		11
116.0	BLASTOMYCOSIS															1		1											2
008.43	CAMPYLOBACTER			1	2			1			4	1		2	3	1		1	1	1		3				1			22
558.2	CLOSTRIDIUM DIFFICILE						2							2	1		2		4	9	5	3	10	5	13	8			64
007.8	CRYPTOSPORIDIOSIS					1																							1
123.4	DIPHYLLOBOTHRIUM													1				1				1							3
008.0	E. COLI 0157			1	1											1													3
007.1	GIARDIA LAMBLIA			1	2		1		1								1												6
320.0	H. INFLUENZAE (CSF)				1																								1
283.11	HEMOLYTIC UREMIC SYNDROME																									1			1
070.51	HEPATITIS C											2	1	3	1	3	3	2	8	2	3			2			2		32
070.59	HEPATITIS OTHER (VIRAL)																			1									1
482.83	LEGIONELLA																				1								1
084	MALARIA								1																				1
036.2	MENINGOCOCCEMIA(MGCCEMIA)											1																	1
B95.6	MRSA	10	4	22	18	17	14	9	11	14	10	19	8	11	9	28	29	17	22	9	10	11	13	3	7	8	6		339
072.9	MUMPS			1																									1
033.0	PERTUSSIS	1	2	1		1			1		1															1			8
038.2	PNEUM. SEPTICEMIA			1												1	2			1		1				1			7
082.0	RICKETTSIA RICKETTSII													1															1
003.0	SALMONELLA	1				2	2	2			2	1			1	1	1	1		2	3	1	1		1	1	1		24
004	SHIGELLOSIS					1		2									1			1									5
041.1	STREP PYOGENES - OTHER ST	1												1		2	1	2	1		2	2							12
041.2	STREP.PNEUM.OTHER																			1									1
127.2	STRONGYLOIDIASIS							1							1			1											3
086	TRYPANOSOMIASIS													1				2											3
013	TUBERCULOSIS - NON-RESP.											1				1					1								3
010	TUBERCULOSIS - PRIM.				1																								1
011	TUBERCULOSIS - RESP											1	1			2		1		1						1			7
002.0	TYPHOID																			1									1
B96.8	VANCOMYCIN RES. ENTER.			1								1					3	2		4	2	4	2	4	3	3			29
005.4	VIBRIO PARAHAEMOLYTICUS																	1											1
		13	6	29	25	23	19	14	14	15	18	28	10	21	18	38	41	33	40	23	34	24	26	18	17	28	22		599

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JULY 2010

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
038.0	BETA STREP SEPTICEMIA	7		1				1				1						1					11
116.0	BLASTOMYCOSIS	1					1																2
008.43	CAMPYLOBACTER	9				6		1		2		2		1				1					22
558.2	CLOSTRIDIUM DIFFICILE	35	6			3		4		5		8		1		1		1					64
007.8	CRYPTOSPORIDIOSIS											1											1
123.4	DIPHYLLOBOTHRIUM	2								1													3
008.0	E. COLI 0157	1								1		1											3
007.1	GIARDIA LAMBLIA	4				2																	6
320.0	H. INFLUENZAE (CSF)																	1					1
283.11	HEMOLYTIC UREMIC SYNDROME					1																	1
070.51	HEPATITIS C	21	1					1	2	3				1				2		1			32
070.59	HEPATITIS OTHER (VIRAL)	1																					1
482.83	LEGIONELLA	1																					1
084	MALARIA	1																					1
036.2	MENINGOCOCCEMIA(MGCCCEMIA	1																					1
B95.6	MRSA	103	3	12	7	3		8	1	5	4	2	3	5		11	165	5	2				339
072.9	MUMPS									1													1
033.0	PERTUSSIS																8						8
038.2	PNEUM. SEPTICEMIA	5								1						1							7
082.0	RICKETTSIA RICKETTSII	1																					1
003.0	SALMONELLA	11	3		1	1		1		1	1			1		2	1	1					24
004	SHIGELLOSIS	2	1														2						5
041.1	STREP PYOGENES - OTHER ST	7		2				1						1			1						12
041.2	STREP.PNEUM.OTHER	1																					1
127.2	STRONGYLOIDIASIS	3																					3
086	TRYPANOSOMIASIS	2				1																	3
013	TUBERCULOSIS - NON-RESP.	3																					3
010	TUBERCULOSIS - PRIM.	1																					1
011	TUBERCULOSIS - RESP	3									1						3						7
002.0	TYPHOID	1																					1
B96.8	VANCOMYCIN RES. ENTER.	22				1		2								2	1	1					29
005.4	VIBRIO PARAHAEMOLYTICUS					1																	1
		251	15	15	8	20	2	19	1	20	6	15	3	10		17	182	12	2	1			599

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - July 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	468	493	3836	3769
All Gonorrhea Infections (including PRNG)	74	81	671	575
All Syphilis Infections*	6	5	30	40
Gonorrhea & Chlamydia Co-infections	34	38	282	257
HIV	14	21	67	81

**Total Number of STBBI Cases by Age and Gender - July 2010**

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		112	32	108	58	36	43	30	23	2	2		2		1				1		455
Gonorrhea Only Cases									6		8	2	9	1	5	6		4		1		1						43
Syphilis Only Cases													1	1			1	2										5
GC and CT Cases									9	2	6	3	5	2	1	5	1	2		2								38
<b>TOTAL</b>							5		127	34	122	63	51	47	36	34	4	10		5		2				1		541
HIV											1		2		1	5	2	6		4								21

**Regional STBBI Distribution - July 2010**

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	251	23	13	4		3	16	8		18		6	6	10	9	14	83	23	1	5		493
All Gonorrhea Infections	39		5			1				4	1	1		1	3	1	20	4		1		81
All Syphilis Infections	4									1												5
GC and CT Infections	17		2							1				1	2		12	3				38

\* The 5 cases in July 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 64% of all non-STBBI related communicable diseases reported to Manitoba Health during August 2010.

- The number of reported cases of MRSA was above the statistically expected range in August 2010 – 374 positive lab-confirmed cases reported; less than 350 expected in an average month.

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

There were 613 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in August 2010:

- 511 reported cases of chlamydia (CT) only
- 49 reported cases of gonorrhoea (GC) only
- 40 reported co-infections of CT and GC and
- 13 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.

The 13 syphilis cases in August 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In August 2010, there were no cases of Hepatitis B virus (HBV), 33 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 August 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Verotoxigenic *E. coli* – 42 positive lab-confirmed cases reported; less than 37 expected in an average month. This increase was due to a food borne outbreak that occurred within the Russian Pavilion during Folklorama, an annual multicultural festival celebrated in Winnipeg.
- *Listeria monocytogenes* – 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Shigellosis – 7 positive lab-confirmed cases reported; less than 6 expected in an average month.

- Trichinosis – 2 positive lab-confirmed cases reported; less than 1 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during July, August, and September, 2005-2009.

## **Explanatory Notes:**

### **General:**

Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date 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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	3	1	2	0-5	28	26
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS	3		0	0-2	5	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	17	15		***	113	92
116.0	BLASTOMYCOSIS				***	4	5
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1	1	
005.2	C. PERFRINGENS		1	0	0-1	2	1
008.43	CAMPYLOBACTER	26	30	27	18-36	157	157
558.2	CLOSTRIDIUM DIFFICILE	55	48		***	563	580
046.1	CREUTZFELD-JACOB DISEASE				***	2	
007.8	CRYPTOSPORIDIOSIS	5	1	9	0-26	18	8
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	1	6
032	DIPHThERIA CASES			0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP			1	0-4	1	6
008.0	E. COLI-VEROTOXIGENIC	8	42	10	0-36	30	70
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	19	11	14	5-23	87	75
320.0	H.INFLUENZAE (CSF)			0	0-0		1
041.5	H.INFLUENZAE (OTHER STERILE)	1		0	0-1	3	
041.59	HAEM. INFLUENZAE (non-B)		1		***	1	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		1
070.1	HEPATITIS A		2	1	0-3	11	4
070.3	HEPATITIS B			1	0-3	3	1
070.51	HEPATITIS C	27	33	27	18-36	244	216
487.1A	INFLUENZA A****				***	88	
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA			0	0-1		4
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES		2	0	0-1	2	3
088.81	LYME DISEASE			1	0-4		
084	MALARIA			1	0-3	7	7
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-0		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD			0	0-0		4
B95.6	MRSA	302	374	218	87-349	1647	2179
072.9	MUMPS			1	0-3	5	2
036.89	N.MENINGITIDIS OTHER	1		0	0-1	5	
728.86	NECROTIZING FASCIITIS		1	1	0-4	3	9
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	5	5	2	0-7	24	41
038.2	PNEUM. SEPTICEMIA	4	9	6	0-12	75	96
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in August 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR August 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-0	1	4
082.0	RICKETTSIA RICKETTSII				***		1
056.9	RUBELLA			0	0-0	2	2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	4		1	0-3	8	11
003.0	SALMONELLA	29	25	18	6-30	174	163
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS		7	2	0-5	16	27
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	11	10		***	66	62
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES		1	1	0-3	5	11
037	TETANUS			0	0-1		1
130.9	TOXOPLASMOSIS			0	0-0	1	2
124	TRICHINOSIS		2	0	0-0		2
086	TRYPANOSOMA CRUZI			0	0-1		3
013	TUBERCULOSIS - NON-RESP.	6	1	2	0-6	21	24
010	TUBERCULOSIS - PRIM.	2	2	1	0-3	8	6
011	TUBERCULOSIS - RESP	14	12	9	1-17	83	66
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-1	1	3
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	10	18		***	54	208
005.4	VIBRIO PARAHAEOLYTICUS		1		***		2
070.59	VIRAL HEP. OTHER				***		2
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA			2	0-5	4	4
		<b>552</b>	<b>655</b>			<b>3616</b>	<b>4208</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 AUGUST 2010

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing Age/Gender	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
006.9	AMEBIASIS									1																			1
038.0	BETA STREP SEPTICEMIA		1	1										1				1	1	1	2	1	1	1	1		3		15
005.2	C. PERFRINGENS																			1									1
008.43	CAMPYLOBACTER					1		2	1		3	2	3			1	1		4	2	4	1	3			1	1		30
558.2	CLOSTRIDIUM DIFFICILE											2		2		1	1		1	6	3	5	3	4	3	11	6		48
007.8	CRYPTOSPORIDIOSIS													1															1
008.0	E. COLI 0157	1		2	4		3		1	2	4	2	4	1		3	1	1	1	2		5	2	1		2			42
007.1	GIARDIA LAMBLIA				1	4	1			1				1						2		1							11
041.59	HAEM. INFLUENZAE (non-B)				1																								1
070.1	HEPATITIS A									1										1									2
070.51	HEPATITIS C											2		1	4	3	4		7	4	4		2		1			1	33
027.0	LISTERIA MONOCYTOGENES																						2						2
B95.6	MRSA	2	2	25	16	19	17	13	17	16	14	11	16	14	21	18	29	15	20	19	15	6	8	5	11	15	10		374
728.86	NECROTIZING FASCIITIS															1													1
033.0	PERTUSSIS	3	2																										5
038.2	PNEUM. SEPTICEMIA	1		1	1						1					2	1			1		1							9
003.0	SALMONELLA				1		2	1	1	2		1		2		1	1	1	4	2	2	1	3						25
004	SHIGELLOSIS			1	1	2						1			1					1									7
041.1	STREP PYOGENES - OTHER ST													1			3	1				2	1		2				10
127.2	STRONGYLOIDIASIS																1												1
124	TRICHINOSIS																1		1										2
013	TUBERCULOSIS - NON-RESP.																				1								1
010	TUBERCULOSIS - PRIM.			1		1																							2
011	TUBERCULOSIS - RESP					1						1					3		1		2	2					2		12
B96.8	VANCOMYCIN RES. ENTER.															1	1	1	1	2	2	1	1	1	3	3	1		18
005.4	VIBRIO PARAHAEMOLYTICUS																	1											1
		7	5	31	25	28	23	16	20	22	23	21	24	23	27	31	47	21	41	43	33	25	28	14	21	32	23		655

# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR AUGUST 2010

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
038.0	BETA STREP SEPTICEMIA	12		1									1						1				15
005.2	C. PERFRINGENS																		1				1
008.43	CAMPYLOBACTER	18	1		1		5						4		1								30
558.2	CLOSTRIDIUM DIFFICILE	36	1		3		2		1		1		2						2				48
007.8	CRYPTOSPORIDIOSIS	1																					1
008.0	E. COLI 0157	32					3				6		1										42
007.1	GIARDIA LAMBLIA	5	3										2							1			11
041.59	HAEM. INFLUENZAE (non-B)																		1				1
070.1	HEPATITIS A	2																					2
070.51	HEPATITIS C	22	2		1		2		2	1	1				2								33
027.0	LISTERIA MONOCYTOGENES	1									1												2
B95.6	MRSA	95	3	4	6		8	1	9		11		5	5	8	3	23	185	7	1			374
728.86	NECROTIZING FASCIITIS	1																					1
033.0	PERTUSSIS	1							3										1				5
038.2	PNEUM. SEPTICEMIA	4							1										4				9
003.0	SALMONELLA	10	3	1	1		2		3		3		2										25
004	SHIGELLOSIS	2											1						4				7
041.1	STREP PYOGENES - OTHER ST	6	1							1									1	1			10
127.2	STRONGYLOIDIASIS	1																					1
124	TRICHINOSIS	2																					2
013	TUBERCULOSIS - NON-RESP.	1																					1
010	TUBERCULOSIS - PRIM.	1																	1				2
011	TUBERCULOSIS - RESP	6								1									5				12
B96.8	VANCOMYCIN RES. ENTER.	14			1						2		1										18
005.4	VIBRIO PARAHAEMOLYTICUS												1										1
		274	14	6	13		22	4	16	3	25		20	5	11	3	23	206	9	1			655

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - August 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	468	551	4304	4311
All Gonorrhea Infections (including PRNG)	83	89	754	663
All Syphilis Infections*	3	13	33	53
Gonorrhea & Chlamydia Co-infections	36	40	318	296
HIV	10	6	77	87

**Total Number of STBBI Cases by Age and Gender - August 2010**

	<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							4		112	40	112	59	57	34	36	28	11	8	2	5		2	1					511
Gonorrhea Only Cases									7	1	6	7	5	4	6	6	2	3			1	1						49
Syphilis Only Cases												1				4	1	2		2		1	1			1		13
GC and CT Cases									13	4	6	4	3	4	1	3			1	1								40
TOTAL							4		132	45	124	71	65	42	43	41	14	13	3	8	1	4	2			1		613
HIV														1	2	2		1										6

**Regional STBBI Distribution - August 2010**

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	286	20	10	14		15	4	8		26		10	5	14	4	31	80	20		4		551
All Gonorrhea Infections	45	2	2	1			1	2		1			1	1		3	23	6		1		89
All Syphilis Infections	11									2												13
GC and CT Infections	17		1	1			1	1		1			1		1	13	3					40

\* The 13 cases in August 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 68% of all non-STBBI related communicable diseases reported to Manitoba Health during September 2010.

The data reveal that there are increased numbers of MRSA and Vancomycin-resistant *Enterococcus* (VRE) in 2010 compared to 2009. Since becoming a reportable disease in Manitoba in 1999, the number of MRSA cases has been increasing every year, especially in northern regions. The increased number of VRE cases in 2010 is attributable to hospital-related VRE outbreaks reported this year.

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

There were 636 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in September 2010:

- 557 reported cases of chlamydia (CT) only
- 37 reported cases of gonorrhoea (GC) only
- 37 reported co-infections of CT and GC and
- 5 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.

The 5 syphilis cases in September 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In September 2010, there were no cases of Hepatitis B virus (HBV), 28 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 September 2010 was within or below the statistically expected range for all reported communicable diseases.

The expected number of cases and range is statistically based on the number of reported cases during August, September, and October, 2005-2009.

The data reveal that there are increased numbers of verotoxigenic *E. coli*, Shigella, and Pertussis in 2010 compared to 2009. These increases are attributable to the occurrence of isolated outbreaks reported to Manitoba Health.

## **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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	7		3	0-6	35	27
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS			0	0-2	5	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	6	20		***	119	112
116.0	BLASTOMYCOSIS	1			***	5	5
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1	1	
005.2	C. PERFRINGENS			1	0-2	2	1
008.43	CAMPYLOBACTER	27	28	28	19-37	184	186
558.2	CLOSTRIDIUM DIFFICILE	60	54		***	623	635
046.1	CREUTZFELD-JACOB DISEASE				***	2	
007.8	CRYPTOSPORIDIOSIS	12	8	10	0-26	30	16
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-1	1	7
032	DIPHThERIA CASES			0	0-0		4
123.4	DIPHYLLOBOTHRIUM SPP		1	1	0-4	1	7
008.0	E. COLI-VEROTOXIGENIC	5	2	10	0-37	35	77
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	11	6	12	4-20	98	88
320.0	H.INFLUENZAE (CSF)			0	0-0		1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	3	
041.59	HAEM. INFLUENZAE (non-B)				***	1	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		1
070.1	HEPATITIS A	1	1	1	0-2	12	5
070.3	HEPATITIS B	2		1	0-3	5	1
070.51	HEPATITIS C	23	28	29	18-40	266	243
487.1A	INFLUENZA A ****				***	88	
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA		1	0	0-1		5
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			1	0-2	2	3
088.81	LYME DISEASE			1	0-3		
084	MALARIA		3	1	0-3	7	10
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-0		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD			0	0-0		4
B95.6	MRSA	327	329	229	90-368	1974	2508
072.9	MUMPS			0	0-2	5	2
036.89	N.MENINGITIDIS OTHER	1		0	0-1	6	
728.86	NECROTIZING FASCIITIS		1	1	0-4	3	10
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS		4	1	0-4	24	45
038.2	PNEUM. SEPTICEMIA	11	9	9	0-18	86	105
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in September 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR September 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-0	2	3
082.0	RICKETTSIA RICKETTSII				***	1	
056.9	RUBELLA			0	0-0	2	2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1	2	1	0-3	9	11
003.0	SALMONELLA	29	13	18	4-32	203	178
079.82	SARS (CORONAVIRUS)				***		
120	SCHISTOSOMIASIS	1		0	0-1	1	
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	2	5	2	0-6	19	33
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	13	6		***	79	68
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES	3	2	1	0-3	8	13
037	TETANUS			0	0-1		1
130.9	TOXOPLASMOSIS			0	0-1	1	2
124	TRICHINOSIS			0	0-0		2
086	TRYPANOSOMA CRUZI			0	0-1		3
013	TUBERCULOSIS - NON-RESP.	2	3	2	0-6	23	27
010	TUBERCULOSIS - PRIM.	1	2	1	0-3	9	8
011	TUBERCULOSIS - RESP	13	10	9	1-17	96	74
021.9	TULAREMIA			0	0-0	1	1
002.0	TYPHOID	1	1	0	0-1	2	4
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	6	19		***	60	227
005.4	VIBRIO PARAHAEMOLYTICUS				***		2
070.59	VIRAL HEP. OTHER				***		2
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA	2	1	2	0-5	6	5
		<b>568</b>	<b>560</b>			<b>4186</b>	<b>4779</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 SEPTEMBER 2010

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		
038.0	BETA STREP SEPTICEMIA													1	1		2	1	3	2	4	3		1	1	1			20
008.43	CAMPYLOBACTER				2		3		1	1			2		1	2	6	2	1		4			1	1	1			28
558.2	CLOSTRIDIUM DIFFICILE			1					1							1		2	4	2	4	4	8	7	13	7			54
007.8	CRYPTOSPORIDIOSIS				2	1	1							1		1		1	1										8
V02.4	DIPH. CARRIERS							1																					1
123.4	DIPHYLLOBOTHRUM																			1									1
008.0	E. COLI 0157				1							1																	2
007.1	GIARDIA LAMBLIA			1										1			2	1				1							6
070.1	HEPATITIS A							1																					1
070.51	HEPATITIS C											3	1	1		2	1	3	6		9		1				1		28
482.83	LEGIONELLA																							1					1
084	MALARIA						1							1			1												3
B95.6	MRSA	5	9	22	22	13	11	11	8	7	8	13	9	12	9	22	20	12	28	12	13	5	18	5	13	9	13		329
728.86	NECROTIZING FASCIITIS											1																	1
033.0	PERTUSSIS		1	1	1		1																						4
038.2	PNEUM. SEPTICEMIA											1	1			1	1			1	1			1	1	1			9
003.0	SALMONELLA				1				3					1	1		2		1			1	1	1		1			13
004	SHIGELLOSIS			1	1	2	1																						5
041.1	STREP PYOGENES - OTHER ST						1					1					1	1				1	1						6
041.2	STREP.PNEUM.OTHER		1				1																						2
127.2	STRONGYLOIDIASIS													1				1											2
013	TUBERCULOSIS - NON-RESP.					1					1			1															3
010	TUBERCULOSIS - PRIM.					1				1																			2
011	TUBERCULOSIS - RESP									1				1	1	1		3		1		1		1					10
002.0	TYPHOID							1																					1
B96.8	VANCOMYCIN RES. ENTER.															2	1			2	1		2	2	2	6	1		19
008.44	YERSINIA ENTEROCOLITICA			1																									1
		5	11	27	30	18	20	13	14	10	9	17	15	17	16	30	38	22	44	22	34	17	31	17	27	32	23		560



# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR SEPTEMBER 2010

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				
038.0	BETA STREP SEPTICEMIA	11	2		1		1		1		2							1	1				20
008.43	CAMPYLOBACTER	10	1		1		4				6	1	2				2	1					28
558.2	CLOSTRIDIUM DIFFICILE	29	9		1		2		2		5		3				2		1				54
007.8	CRYPTOSPORIDIOSIS	2				1	2				1		1		1								8
V02.4	DIPH. CARRIERS																	1					1
123.4	DIPHYLLOBOTHRIUM	1																					1
008.0	E. COLI 0157	1					1																2
007.1	GIARDIA LAMBLIA	4					1						1										6
070.1	HEPATITIS A						1																1
070.51	HEPATITIS C	17	1		1		1		3		1				2			1			1		28
482.83	LEGIONELLA	1																					1
084	MALARIA	3																					3
B95.6	MRSA	116	1	6	3		4	3	9		2		8	2	5	2	10	149	9				329
728.86	NECROTIZING FASCIITIS																1						1
033.0	PERTUSSIS	4																					4
038.2	PNEUM. SEPTICEMIA	6				1			1		1												9
003.0	SALMONELLA	3	2								4				1				2			1	13
004	SHIGELLOSIS																	5					5
041.1	STREP PYOGENES - OTHER ST	3							1		1							1					6
041.2	STREP.PNEUM.OTHER																	2					2
127.2	STRONGYLOIDIASIS	2																					2
013	TUBERCULOSIS - NON-RESP.																	3					3
010	TUBERCULOSIS - PRIM.	1																1					2
011	TUBERCULOSIS - RESP	3								2								4	1				10
002.0	TYPHOID	1																					1
B96.8	VANCOMYCIN RES. ENTER.	14	1	1			1				2												19
008.44	YERSINIA ENTEROCOLITICA	1																					1
		233	17	7	7	2	18	3	17	2	25	1	15	2	9	2	15	169	14		1	1	560

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - September 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	581	594	4885	4904
All Gonorrhea Infections (including PRNG)	88	74	842	737
All Syphilis Infections*	2	5	36	54
Gonorrhea & Chlamydia Co-infections	34	37	352	333
HIV	5	10	82	97

**Total Number of STBBI Cases by Age and Gender - September 2010**

	<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							8	1	143	34	109	55	64	45	40	32	6	14	1	2	1	2							557
Gonorrhea Only Cases									4	4	4	2	5	2	4	7	1	2		1		1							37
Syphilis Only Cases															1	2		1				1							5
GC and CT Cases							2		7	5	6	6	2	3	1	2		2						1					37
TOTAL							10	1	154	43	119	63	71	50	46	43	7	19	1	3	1	4		1					636
HIV											2	1			1	2		1		2		1							10

**Regional STBBI Distribution - September 2010**

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	296	28	22	17		6	7	16	2	27		8	4	16	9	31	72	26		5	2	594
All Gonorrhea Infections	37	3	3	1				1		1		1	1	2	3	4	12	5				74
All Syphilis Infections	5																					5
GC and CT Infections	21	1	2										1		2	2	8					37

\* The 5 cases in September 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 66% of all non-STBBI related communicable diseases reported to Manitoba Health during October 2010.

The data reveal that there are increased numbers of MRSA and Vancomycin-resistant *Enterococcus* (VRE) in 2010 compared to 2009. Since becoming a reportable disease in Manitoba in 1999, the number of MRSA cases has been increasing every year, especially in northern regions. The increased number of VRE cases in 2010 is attributable to hospital-related VRE outbreaks reported this year.

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

There were 569 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in October 2010:

- 474 reported cases of chlamydia (CT) only
- 52 reported cases of gonorrhoea (GC) only
- 37 reported co-infections of CT and GC and
- 6 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.

The 6 syphilis cases in October 2010 include both infectious and non-infectious cases, as well as those requiring further follow-up to determine their status.

In October 2010, there were no cases of Hepatitis B virus (HBV), 23 cases of Hepatitis C virus (HCV) and 11 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in October 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Meningococemia (blood): 2 positive lab-confirmed cases reported; less than 1 expected in an average month.
- Pertussis: 4 positive lab-confirmed cases reported; less than 4 expected in an average month.
- Shigellosis: 9 positive lab-confirmed cases reported; less than 7 expected in an average month.

- Toxoplasmosis: 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 September, October, and November, 2005-2009.

The data reveal that there are increased numbers of verotoxigenic E. coli, Shigella, and Pertussis in 2010 compared to 2009. These increases are attributable to the occurrence of isolated outbreaks reported to Manitoba Health.

## **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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	2	2	3	0-6	37	29
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS			0	0-1	5	
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	4	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	13	13		***	132	125
116.0	BLASTOMYCOSIS	2	1		***	7	6
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0	1	
005.2	C. PERFRINGENS	1		1	0-2	3	1
008.43	CAMPYLOBACTER	30	23	22	6-38	214	210
558.2	CLOSTRIDIUM DIFFICILE	78	51		***	701	686
046.1	CREUTZFELD-JACOB DISEASE	1			***	3	
007.8	CRYPTOSPORIDIOSIS	5	2	6	0-18	35	19
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-1	1	8
032	DIPHTheria CASES			0	0-1		4
123.4	DIPHYLLOBOTHRIUM SPP	3		1	0-3	4	7
008.0	E. COLI-VEROTOXIGENIC	3	2	6	0-20	38	79
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	14	8	10	4-16	112	97
320.0	H.INFLUENZAE (CSF)			0	0-0		1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	3	
041.59	HAEM. INFLUENZAE (non-B)				***	1	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		1
070.1	HEPATITIS A		1	0	0-1	12	7
070.3	HEPATITIS B			0	0-1	5	1
070.51	HEPATITIS C	28	23	30	16-44	293	268
487.1A	INFLUENZA A****	5	1		***	92	1
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA			0	0-1		5
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES		1	0	0-1	2	4
088.81	LYME DISEASE	1		0	0-1	1	
084	MALARIA	1	1	2	0-4	8	11
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-0		
036.82	MENINGOCOCCAL ARTHROPATHY				***		2
036.2	MENINGOCOCCAL BLOOD		2	0	0-0		6
B95.6	MRSA	299	308	215	88-342	2273	2816
072.9	MUMPS			0	0-1	5	2
036.89	N.MENINGITIDIS OTHER	1		0	0-1	7	
728.86	NECROTIZING FASCIITIS		1	1	0-3	3	11
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS	2			***	2	
033.0	PERTUSSIS	1	4	1	0-3	25	51
038.2	PNEUM. SEPTICEMIA	13	18	9	0-19	99	123
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Influenza A Pandemic H1N1 (pH1N1). There were no cases of pH1N1 in October 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR October 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-0	2	3
082.0	RICKETTSIA RICKETTSII				***		1
056.9	RUBELLA			0	0-0	2	2
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	1		0	0-1	8	11
003.0	SALMONELLA	27	18	15	1-29	230	198
079.82	SARS (CORONAVIRUS)				***		
120	SCHISTOSOMIASIS			0	0-1	1	
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	1	9	2	0-6	20	42
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	12	8		***	91	76
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES	2	2	1	0-3	10	15
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS		2	0	0-1	1	4
124	TRICHINOSIS			0	0-0		2
086	TRYPANOSOMA CRUZI			0	0-1		3
013	TUBERCULOSIS - NON-RESP.	2		2	0-4	25	26
010	TUBERCULOSIS - PRIM.			0	0-2	9	7
011	TUBERCULOSIS - RESP	6	6	7	0-15	102	81
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID	1	1	0	0-1	3	5
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	17	36		***	77	263
005.4	VIBRIO PARAHAEMOLYTICUS				***		2
070.59	VIRAL HEP. OTHER		2		***		4
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA	1	1	2	0-5	7	6
		<b>574</b>	<b>548</b>			<b>4755</b>	<b>5337</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 OCTOBER 2010

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	1										1		4	1		2	2				1			13
116.0	BLASTOMYCOSIS								1																				1
008.43	CAMPYLOBACTER				1		2				1	1	1		3	2	1	2		4	2	1		1	1				23
558.2	CLOSTRIDIUM DIFFICILE			1							1		1			1		2	3	1	8	6	7	4	10	6			51
007.8	CRYPTOSPORIDIOSIS											1		1															2
V02.4	DIPH. CARRIERS																	1											1
008.0	E. COLI 0157								2																				2
007.1	GIARDIA LAMBLIA			1	1	1												2	2			1							8
070.1	HEPATITIS A								1																				1
070.51	HEPATITIS C					1					1		2		1	1		6	2	5	2		1				1		23
070.59	HEPATITIS OTHER (VIRAL)	1							1																				2
487.1A	INFLUENZA A		1																										1
027.0	LISTERIA MONOCYTOGENES																							1					1
084	MALARIA															1													1
036.2	MENINGOCOCCEMIA(MGCCCEMIA						1												1										2
B95.6	MRSA	6	6	27	13	10	6	13	8	9	9	11	13	7	8	17	13	19	16	9	16	11	9	7	8	16	21		308
728.86	NECROTIZING FASCIITIS																		1										1
033.0	PERTUSSIS		2			1			1																				4
038.2	PNEUM. SEPTICEMIA				3	1										1				2	2	2	1	1	4	1			18
003.0	SALMONELLA	1		1			1		2	1		2			1	1	3	1	3		1								18
004	SHIGELLOSIS			3	2			1					1					1			1								9
041.1	STREP PYOGENES - OTHER ST		1							1								2	1	1	1			1					8
127.2	STRONGYLOIDIASIS										2																		2
130.9	TOXOPLASMOSIS							1							1														2
013	TUBERCULOSIS - NON-RESP.																												
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP															1	1		1	1			1	1					6
002.0	TYPHOID					1																							1
B96.8	VANCOMYCIN RES. ENTER.															1		4	4	5	3	3	4	1	9	2			36
008.44	YERSINIA ENTEROCOLITICA																			1									1
		8	10	33	21	16	10	16	15	12	13	17	16	9	14	25	26	27	41	31	29	28	22	21	21	37	29		548



# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR OCTOBER 2010

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
038.0	BETA STREP SEPTICEMIA	9	2	1														1					13
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	7	1		2		1		5		2		2			1	2						23
558.2	CLOSTRIDIUM DIFFICILE	27	2		1		1		3		7		4		2			3	1				51
007.8	CRYPTOSPORIDIOSIS	1			1																		2
V02.4	DIPH. CARRIERS																		1				1
008.0	E. COLI 0157								1							1							2
007.1	GIARDIA LAMBLIA	4	2				1								1								8
070.1	HEPATITIS A		1																				1
070.51	HEPATITIS C	13	1		1			3	1		1				1		1				1		23
070.59	HEPATITIS OTHER (VIRAL)	2																					2
487.1A	INFLUENZA A															1							1
027.0	LISTERIA MONOCYTOGENES	1																					1
084	MALARIA	1																					1
036.2	MENINGOCOCCEMIA(MGCCEMIA	2																					2
B95.6	MRSA	107		5	4		10	4	6	1	2	1	1		4	2	10	138	12	1			308
728.86	NECROTIZING FASCIITIS											1											1
033.0	PERTUSSIS	2	1															1					4
038.2	PNEUM. SEPTICEMIA	11			1						1			1	1			3					18
003.0	SALMONELLA	6	2		1		1		2		3			1	1			1					18
004	SHIGELLOSIS		1													1	7						9
041.1	STREP PYOGENES - OTHER ST	3									1				1	1		1	1				8
127.2	STRONGYLOIDIASIS	2																					2
130.9	TOXOPLASMOSIS					1					1												2
013	TUBERCULOSIS - NON-RESP.																						
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	3	1															1	1				6
002.0	TYPHOID	1																					1
B96.8	VANCOMYCIN RES. ENTER.	21	1			4		6		2								2					36
008.44	YERSINIA ENTEROCOLITICA		1																				1
		225	17	6	11		19	7	24	1	20	2	7	2	11	3	15	160	16	1	1		548

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - October 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	550	511	5435	5415
All Gonorrhea Infections (including PRNG)	82	89	924	826
All Syphilis Infections*	3	6	40	59
Gonorrhea & Chlamydia Co-infections	28	37	380	370
HIV	10	11	92	107

**Total Number of STBBI Cases by Age and Gender - October 2010**

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							7	1	102	42	92	65	54	47	20	27	5	5	1	3	1	1	1					474
Gonorrhea Only Cases									7	2	7	9	4	1	6	7	2	3		1	1	1	1					52
Syphilis Only Cases													3		1		1								1			6
GC and CT Cases							1		8	2	7	4	3	3	3	4		1		1								37
<b>TOTAL</b>							8	1	117	46	106	78	61	54	29	39	7	10	1	5	2	2	2			1		569
HIV												1		3	1	1	1	2	1	1								11

**Regional STBBI Distribution - October 2010**

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	22	15	13	1	8	9	10	3	11		15	5	13	4	26	61	29	5	1		511
All Gonorrhea Infections	48	1	2	5			2	1				1		1		5	16	7				89
All Syphilis Infections	4	1						1														6
GC and CT Infections	19		1	2			1									3	8	3				37

\* The 6 cases in October 2010 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, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 63% of all non-STBBI related communicable diseases reported to Manitoba Health during November 2010.

- The number of reported cases of MRSA was above the statistically expected range in November 2010 – 325 positive lab-confirmed cases reported; less than 314 expected in an average month.

The data reveal that there are increased numbers of MRSA and Vancomycin-resistant *Enterococcus* (VRE) in 2010 compared to 2009. Since becoming a reportable disease in Manitoba in 1999, the number of MRSA cases has been increasing every year, especially in northern regions. The increased number of VRE cases in 2010 is attributable to hospital-related VRE outbreaks reported this year.

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

There were 593 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in November 2010:

- 498 reported cases of chlamydia (CT) only
- 52 reported cases of gonorrhoea (GC) only
- 42 reported co-infections of CT and GC and
- 1 reported case 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 November 2010, there were no cases of Hepatitis B virus (HBV), 34 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 November 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- Pertussis: 4 positive lab-confirmed cases reported; less than 4 expected in an average month.

- Streptococcus pneumoniae (other sterile site): 3 positive lab-confirmed cases reported; less than 3 expected in an average month.
- Shigellosis: 6 positive lab-confirmed cases reported; less than 6 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 October, November, and December, 2005-2009.

The data reveal that there are increased numbers of verotoxigenic E. coli, Shigella, and Pertussis in 2010 compared to 2009. These increases are attributable to the occurrence of isolated outbreaks reported to Manitoba Health.

## **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 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	3		3	0-6	40	29
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		1
005.8	B. CEREUS			0	0-1	5	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	4	
320.7	BAC. MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	9	7		***	141	132
116.0	BLASTOMYCOSIS				***	7	6
005.1	BOTULISM				***		
023	BRUCELLOSIS		1	0	0-1	1	1
005.2	C. PERFRINGENS			0	0-1	3	1
008.43	CAMPYLOBACTER	9	21	18	2-34	223	231
558.2	CLOSTRIDIUM DIFFICILE	65	66		***	766	753
046.1	CREUTZFELD-JACOB DISEASE				***	3	
007.8	CRYPTOSPORIDIOSIS	1	3	3	0-9	36	22
061.0	DENGUE FEVER			0	0-0		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH. CARRIERS	2	1	0	0-1	3	9
032	DIPHTHERIA CASES			0	0-1		4
123.4	DIPHYLLOBOTHRUM SPP		1	1	0-3	4	8
008.0	E. COLI-VEROTOXIGENIC	4	2	5	0-19	42	84
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	11	9	9	3-15	123	107
320.0	H. INFLUENZAE (CSF)			0	0-1		1
041.5	H. INFLUENZAE (OTHER STERILE)			0	0-1	3	
041.59	HAEM. INFLUENZAE (non-B)				***	1	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1		1
070.1	HEPATITIS A			0	0-1	12	7
070.3	HEPATITIS B			0	0-1	5	1
070.51	HEPATITIS C	16	34	30	15-45	309	302
487.1A	INFLUENZA A****	4	49		***	96	50
487.1B	INFLUENZA B				***	38	
482.83	LEGIONELLA			0	0-1		5
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	2	4
088.81	LYME DISEASE			0	0-1	1	4
084	MALARIA	3	1	1	0-3	11	12
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY		1		***		3
036.2	MENINGOCOCCAL BLOOD			0	0-1		6
B95.6	MRSA	277	325	198	83-313	2550	3141
072.9	MUMPS			0	0-1	5	2
036.89	N. MENINGITIDIS OTHER			0	0-1	7	
728.86	NECROTIZING FASCIITIS			2	0-5	3	11
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***	2	
033.0	PERTUSSIS	4	4	1	0-3	29	55
038.2	PNEUM. SEPTICEMIA	18	16	10	1-19	117	139
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Wave 1 and 2 cases reported during the 2009 Influenza A H1N1 pandemic. There were no cases of pandemic H1N1 in November 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR November 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-1	1	
082.0	RICKETTSIA RICKETTSII				***		1
056.9	RUBELLA			0	0-0	2	3
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		3	1	0-2	8	13
003.0	SALMONELLA	14	11	14	1-27	244	210
079.82	SARS (CORONAVIRUS)				***		
120	SCHISTOSOMIASIS			0	0-1	1	
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS		6	1	0-5	20	49
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	3	8		***	94	84
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES	1		1	0-5	11	15
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS			0	0-1	1	4
124	TRICHINOSIS			0	0-0		2
086	TRYPANOSOMA CRUZI			0	0-0		3
013	TUBERCULOSIS - NON-RESP.	3	5	2	0-4	28	32
010	TUBERCULOSIS - PRIM.			1	0-3	9	7
011	TUBERCULOSIS - RESP	10	8	7	1-13	112	88
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-1	3	5
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	11	41		***	88	304
005.4	VIBRIO PARAHAEMOLYTICUS				***		2
070.59	VIRAL HEP. OTHER		2		***		6
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA	1		1	0-2	8	6
		<b>469</b>	<b>625</b>			<b>5223</b>	<b>5970</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 NOVEMBER 2010

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		
038.0	BETA STREP SEPTICEMIA	1														1							1	1	2	1			7
023	BRUCELLOSIS											1																	1
008.43	CAMPYLOBACTER			2			1				1			3		2	1	2	1	1	1	2	1		1	2			21
558.2	CLOSTRIDIUM DIFFICILE											1		3	1	5	3	1	1	7	1	9	3	8	5	9	9		66
007.8	CRYPTOSPORIDIOSIS				1					1				1															3
V02.4	DIPH. CARRIERS			1																									1
123.4	DIPHYLLOBOTHRIUM																			1									1
008.0	E. COLI 0157										1									1									2
007.1	GIARDIA LAMBLIA			1	1	2								1				2	2										9
070.51	HEPATITIS C									1				2	5	3	1	6	2	11		1		1			1		34
070.59	HEPATITIS OTHER (VIRAL)														1			1											2
487.1A	INFLUENZA A	3	5	6	2	1	2	1	2	1		2		2	1	8	5	2	2	1	1					1	1		49
084	MALARIA						1																						1
036.82	MENINGOCOCCAL ARTHROPATHY			1																									1
B95.6	MRSA	7	11	18	15	12	7	10	14	9	13	13	7	9	11	15	21	12	22	12	15	10	17	7	10	15	13		325
033.0	PERTUSSIS	1	1		1				1																				4
038.2	PNEUM. SEPTICEMIA		1	1												1			1	4		4	3		1				16
003.0	SALMONELLA				3							1	2	1		1					1	1				1			11
004	SHIGELLOSIS					1	1	1		1						1					1								6
041.1	STREP PYOGENES - OTHER ST															1		2		3				1	1				8
041.2	STREP.PNEUM.OTHER		1		1																					1			3
013	TUBERCULOSIS - NON-RESP.						1									2		2											5
010	TUBERCULOSIS - PRIM.																												
011	TUBERCULOSIS - RESP															1	1		1		1	2			1		1		8
B96.8	VANCOMYCIN RES. ENTER.											1				1	2	4	1	5	2	3	5	1	4	8	4		41
		12	19	30	24	16	13	12	17	12	16	18	10	18	17	41	39	27	39	36	34	31	31	19	24	37	32		625



# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR NOVEMBER 2010

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								
038.0	BETA STREP SEPTICEMIA	5					1						1						7				
023	BRUCELLOSIS				1														1				
008.43	CAMPYLOBACTER	13			1		1		2				1			2	1		21				
558.2	CLOSTRIDIUM DIFFICILE	38	4		3		4		7		6			2	1	1			66				
007.8	CRYPTOSPORIDIOSIS	1									1	1							3				
V02.4	DIPH. CARRIERS														1				1				
123.4	DIPHYLLOBOTHRUM						1												1				
008.0	E. COLI 0157					1							1						2				
007.1	GIARDIA LAMBLIA	4	2		2				1										9				
070.51	HEPATITIS C	21		1		1	1	4	1		1		1			2		1	34				
070.59	HEPATITIS OTHER (VIRAL)	1	1																2				
487.1A	INFLUENZA A	12		1								1	1		1	31	1	1	49				
084	MALARIA	1																	1				
036.82	MENINGOCOCCAL ARTHROPATHY														1				1				
B95.6	MRSA	96	2	4	3		5	1	13		6	1	7	5	3		13	154	12	325			
033.0	PERTUSSIS	1								2					1				4				
038.2	PNEUM. SEPTICEMIA	10		1		1				1					1	1			16				
003.0	SALMONELLA	6	1		1		2		1										11				
004	SHIGELLOSIS														5	1			6				
041.1	STREP PYOGENES - OTHER ST	5					1					1			1				8				
041.2	STREP.PNEUM.OTHER		1												2				3				
013	TUBERCULOSIS - NON-RESP.	2		1											1	1			5				
010	TUBERCULOSIS - PRIM.																						
011	TUBERCULOSIS - RESP	5													3				8				
B96.8	VANCOMYCIN RES. ENTER.	25		2		6		1		4		1				2			41				
		246	11	9	4		21	3	28		25	1	16	8	8		18	203	21	1	1	1	625

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - November 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	503	540	5938	5958
All Gonorrhea Infections (including PRNG)	66	94	990	921
All Syphilis Infections*	5	1	45	59
Gonorrhea & Chlamydia Co-infections	33	42	413	413
HIV	5	13	97	119

**Total Number of STBBI Cases by Age and Gender - November 2010**

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							8		112	36	111	61	56	35	42	20	6	5	3	2		1						498
Gonorrhea Only Cases			1				1		8	5	7	5	7	4	5	3		3		2		1						52
Syphilis Only Cases																									1			1
GC and CT Cases							1		13	5	6	3	5	3	1	2	2	1										42
<b>TOTAL</b>			1				10		133	46	124	69	68	42	48	25	8	9	3	4		2			1			593
HIV	1											2	3	3	1	1	1		1									13

**Regional STBBI Distribution - November 2010**

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	283	24	13	14	1	6	5	10	2	11		15	3	10	7	32	70	25		9		540
All Gonorrhea Infections	43	2	3	5	1	5	3	2		3					2	5	18	2				94
All Syphilis Infections											1											1
GC and CT Infections	18	1	1	3		1	1	2							1	3	11					42

\* 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 December 31, 2010

### Highlights:

#### 1. Antimicrobial Resistant Organisms

Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 43% of all non-STBBI related communicable diseases reported to Manitoba Health during December 2010.

- The number of reported cases of MRSA was above the statistically expected range in December 2010 – 284 positive lab-confirmed cases reported; less than 245 expected in an average month.

The data reveal that there are increased numbers of MRSA and Vancomycin-resistant *Enterococcus* (VRE) in 2010 compared to 2009. Since becoming a reportable disease in Manitoba in 1999, the number of MRSA cases has been increasing every year, especially in northern regions. The increased number of VRE cases in 2010 is attributable to hospital-related VRE outbreaks reported this year.

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

There were 532 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in December 2010:

- 453 reported cases of chlamydia (CT) only
- 37 reported cases of gonorrhoea (GC) only
- 37 reported co-infections of CT and GC and
- 5 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 December 2010, there were no cases of Hepatitis B virus (HBV), 16 cases of Hepatitis C virus (HCV) and 9 cases of HIV newly reported in Manitoba.

#### 3. Other Communicable Diseases

The number of reported cases in December 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

- *Diphyllobothrium*: 2 positive lab-confirmed cases reported; less than 2 expected in an average month.

- *Neisseria meningitidis* (other sterile site): 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
- Pneumococcal septicemia: 21 positive lab-confirmed cases reported; less than 14 expected in an average month.

The expected number of cases and range is statistically based on the number of reported cases during November ('05-'09), December ('05-'09), and January ('06-'10).

The data reveal that there are increased numbers of verotoxigenic *E. coli*, *Shigella*, and Pertussis in 2010 compared to 2009. These increases are attributable to the occurrence of isolated outbreaks reported to Manitoba Health.

## **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 December 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	3	2	3	0-7	43	31
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		1
005.8	B. CEREUS			0	0-1	5	
320.1	BAC. MENINGITIS - PNEUM			0	0-1	4	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	16	7		***	157	139
116.0	BLASTOMYCOSIS	2			***	9	6
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1	1	1
005.2	C. PERFRINGENS			1	0-2	3	1
008.43	CAMPYLOBACTER	11	8	14	8-20	234	240
558.2	CLOSTRIDIUM DIFFICILE	78	69		***	844	822
046.1	CREUTZFELD-JACOB DISEASE				***	3	
007.8	CRYPTOSPORIDIOSIS		1	2	0-6	36	23
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1	3	9
032	DIPHTHERIA CASES	1		0	0-1	1	4
123.4	DIPHYLLOBOOTHRIUM SPP	1	2	0	0-1	5	10
008.0	E. COLI-VEROTOXIGENIC	2	6	3	0-7	44	90
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	9	7	8	1-15	132	117
320.0	H.INFLUENZAE (CSF)			0	0-1		1
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1	3	
041.59	HAEM. INFLUENZAE (non-B)				***	1	1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		1
070.1	HEPATITIS A			1	0-3	12	7
070.3	HEPATITIS B			0	0-1	5	1
070.51	HEPATITIS C	33	16	30	17-43	342	317
487.1A	INFLUENZA A****		309		***	98	359
487.1B	INFLUENZA B		1		***	38	1
482.83	LEGIONELLA		1	0	0-1		6
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1	2	4
088.81	LYME DISEASE			0	0-1	1	3
084	MALARIA	3	1	1	0-2	14	14
055.9	MEASLES			0	0-0		1
036.0	MENINGOCOCCAL CSF	1	1	0	0-1	1	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		3
036.2	MENINGOCOCCAL BLOOD	1		0	0-1	1	6
B95.6	MRSA	256	284	152	60-244	2806	3425
072.9	MUMPS			0	0-1	5	2
036.89	N.MENINGITIDIS OTHER		2	0	0-1	7	2
728.86	NECROTIZING FASCIITIS	2	1	1	0-4	5	12
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***	2	
033.0	PERTUSSIS	1	4	3	0-11	30	59
038.2	PNEUM. SEPTICEMIA	5	21	8	3-13	122	161
073.9	PSITTACOSIS			0	0-0		

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

\*\* Mean +/- 2 standard deviations of the mean.

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

\*\*\*\* Excludes Wave 1 and 2 cases reported during the 2009 Influenza A H1N1 pandemic. There were no cases of pandemic H1N1 in December 2010.

# SUMMARY OF COMMUNICABLE DISEASE FOR December 2010

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER	1		0	0-0	2	
082.0	RICKETTSIA RICKETTSII				***		1
056.9	RUBELLA			0	0-0	2	3
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER	2		0	0-1	10	13
003.0	SALMONELLA	23	20	15	1-29	267	233
079.82	SARS (CORONAVIRUS)				***		
120	SCHISTOSOMIASIS			0	0-1	1	
079.99	SEVERE RESPIRATORY ILLNESS				***		
004	SHIGELLOSIS	4	3	1	0-3	24	52
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	2	3		***	96	87
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK	1		0	0-1	1	
481	STREPTOCOCCUS PNEUMONIAE			0	0-0		
127.2	STRONGYLOIDES			1	0-5	11	15
037	TETANUS			0	0-0		1
130.9	TOXOPLASMOSIS			0	0-1	1	4
124	TRICHINOSIS			0	0-0		2
086	TRYPANOSOMA CRUZI			0	0-0		3
013	TUBERCULOSIS - NON-RESP.		1	2	0-4	28	33
010	TUBERCULOSIS - PRIM.		1	1	0-3	9	8
011	TUBERCULOSIS - RESP	7	5	6	0-12	119	93
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID		1	0	0-1	3	6
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	38		***	93	342
005.4	VIBRIO PARAHAEMOLYTICUS		1		***		3
070.59	VIRAL HEP. OTHER		1		***		6
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL				***		
008.44	YERSINIA ENTEROCOLITICA		1	1	0-2	8	7
		470	818			5695	6794

\* 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 DECEMBER 2010

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing Age/Gender	Total	
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M			
006.9	AMEBIASIS														1				1										2	
036.0	BAC.MGTS-NMGTS(MGCCL MGTS																		1										1	
038.0	BETA STREP SEPTICEMIA														1					1			1	1			3		7	
008.43	CAMPYLOBACTER						1				1								1	1	1	1			2				8	
558.2	CLOSTRIDIUM DIFFICILE												3	2		4	2	3	2	5	3	6	5	8	2	11	13		69	
007.8	CRYPTOSPORIDIOSIS										1																		1	
123.4	DIPHYLLOBOTHRIUM																1				1								2	
008.0	E. COLI 0157						1						1	1						2			1						6	
007.1	GIARDIA LAMBLIA				1				1									3	1		1								7	
070.51	HEPATITIS C										1	1	1		1	1	2		4		3				1			1	16	
070.59	HEPATITIS OTHER (VIRAL)										1																		1	
487.1A	INFLUENZA A		7	8	18	16	11	11	16	5	5	4	10	3	13	6	18	12	17	13	11	16	9	6	8	8	41	17		309
487.1B	INFLUENZA B			1																									1	
482.83	LEGIONELLA																			1									1	
084	MALARIA																		1										1	
B95.6	MRSA		6	4	17	19	9	9	8	8	11	5	9	10	10	8	17	14	15	8	16	18	9	9	4	13	15	13		284
728.86	NECROTIZING FASCIITIS																		1										1	
036.89	NEISSERIA MGTS(Other)																		1							1			2	
033.0	PERTUSSIS		2	1			1																						4	
038.2	PNEUM. SEPTICEMIA		1	1					1						1		3		1	2	1	2	3	1	2		2		21	
003.0	SALMONELLA			1	1		2						1		2		1		2		1	5	1		1		2		20	
004	SHIGELLOSIS						1	1									1												3	
041.1	STREP PYOGENES - OTHER ST																1				2								3	
013	TUBERCULOSIS - NON-RESP.																1												1	
010	TUBERCULOSIS - PRIM.			1																									1	
011	TUBERCULOSIS - RESP						1						1	1	1					1									5	
002.0	TYPHOID								1																				1	
B96.8	VANCOMYCIN RES. ENTER.														2	2	3	1	1	7	2	2	4	2	2	4	6		38	
005.4	VIBRIO PARAHAEMOLYTICUS																	1											1	
008.44	YERSINIA ENTEROCOLITICA			1																									1	
		16	17	37	36	27	21	26	15	17	11	23	19	30	18	45	38	46	35	46	53	31	28	26	29	76	51	1	818	



# SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR DECEMBER 2010

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
036.0	BAC.MGTS-NMGTS(MGCCL MGTS	1																					1
038.0	BETA STREP SEPTICEMIA	6																1					7
008.43	CAMPYLOBACTER	2	1	1		1		1		1								1					8
558.2	CLOSTRIDIUM DIFFICILE	44	5	1		1		5		4		6		1				1	1				69
007.8	CRYPTOSPORIDIOSIS									1													1
123.4	DIPHYLLOBOTHRIUM	2																					2
008.0	E. COLI 0157	3		1						2													6
007.1	GIARDIA LAMBLIA	3	2											1		1							7
070.51	HEPATITIS C	13	1					1								1							16
070.59	HEPATITIS OTHER (VIRAL)	1																					1
487.1A	INFLUENZA A	115	1	17	7		7	9	15	1	14		7	3	8	6	3	63	30	2	1		309
487.1B	INFLUENZA B	1																					1
482.83	LEGIONELLA			1																			1
084	MALARIA	1																					1
B95.6	MRSA	103	3	6	2		5	2	4		9	1	3	3	6	2	9	117	8			1	284
728.86	NECROTIZING FASCIITIS																	1					1
036.89	NEISSERIA MGTS(Other)		1															1					2
033.0	PERTUSSIS	3						1															4
038.2	PNEUM. SEPTICEMIA	9	1	1	1							2				3	3	1					21
003.0	SALMONELLA	8		5	1			2				2		2									20
004	SHIGELLOSIS	1																2					3
041.1	STREP PYOGENES - OTHER ST	2																1					3
013	TUBERCULOSIS - NON-RESP.	1																					1
010	TUBERCULOSIS - PRIM.																	1					1
011	TUBERCULOSIS - RESP	3																2					5
002.0	TYPHOID					1																	1
B96.8	VANCOMYCIN RES. ENTER.	28		2		3	1	2		2													38
005.4	VIBRIO PARAHAEMOLYTICUS									1													1
008.44	YERSINIA ENTEROCOLITICA	1																					1
		353	15	29	17		18	12	31	1	34	1	20	6	18	8	17	192	42	2	1	1	818

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

\*\* OOP=Out of Province

**STBBI Infection Summary Report - December 2010**

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2009	2010	2009	2010
All Chlamydia Infections	409	490	6347	6451
All Gonorrhea Infections (including PRNG)	48	74	1038	996
All Syphilis Infections*	2	5	47	64
Gonorrhea & Chlamydia Co-infections	13	37	426	451
HIV	9	9	106	125

**Total Number of STBBI Cases by Age and Gender - December 2010**

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	2	86	37	119	60	42	28	21	30	11	7	1	3		1						453
Gonorrhea Only Cases							1	1		3	4	4	2	5	3	5	3	4		1		1						37
Syphilis Only Cases									1		1			1			1	1										5
GC and CT Cases							1		9	6	3	7	4	2	1	2	2											37
<b>TOTAL</b>							7	3	96	46	127	71	48	36	25	37	17	12	1	4		2						532
HIV												1	1		1	1		3		2								9

**Regional STBBI Distribution - December 2010**

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	263	25	10	7		8	3	11		17		10	4	11	5	28	59	24		4	1	490
All Gonorrhea Infections	30		2	5			2		1				1		1	22	9			1		74
All Syphilis Infections	5																					5
GC and CT Infections	11		2	2			1								1	14	5			1		37

\* 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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