# Manitoba

### Health

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# Santé

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Dear Colleague,

Please find attached a copy of "Summary of Communicable Diseases for the Month of December 2006" for your review. This report reflects the number of reportable communicable diseases for which individuals in Manitoba tested positive\* during the month of December 2006. The December monthly report is of particular interest as it also reflects a complete calendar year's worth of activity for reportable communicable diseases compared to the previous calendar year.

# Communicable Diseases

In total, there were **352** new infections occurring across 27 communicable diseases<sup>\*\*</sup> (excluding sexually transmitted infections and HIV) in December 2006. The observed number of cases was within the expected ranged for most of the reported communicable diseases, with the exception of BAC Meningitis – Haemophilus (observed 1 case; expect 0 cases), Brucellosis (observed 1 case; expect 0 cases), E. coli verotoxigenic (observed 10 cases; expect 0-8 cases), Herpes with unspecified complications (observed 1 case, expect 0 cases), Methicillin Resistant Staphylococcus Aureus (MRSA; 131 cases observed; expected range = 0-98 cases) and Mumps (observed 2 cases; expect 0-1 cases). The expected number of cases and accompanying range is based on the number of reported cases during November and December 2001-2005 and January 2002-2006.

Comparing 2006 year-end totals with those in 2005, the Communicable Disease Control Unit witnessed a 13% increase in the overall number of reportable communicable diseases. 2006 witness two main outbreaks, both leading to significant increases in reported cases: a summer outbreak of verotoxin producing E. coli resulted in more than a four-fold increase between 2005 and 2006, and a winter outbreak of Pneumococcal Septicemia saw cases increase by more than 60% from the previous year. Methicillin Resistant Staphylococcus Aureus (MRSA) cases, which make up about one-third of non-STI/HIV related reportable diseases also rose by 29% between 2005 and 2006. Other diseases showing increases from 2005 to 2006 include Necrotising Fasciitis (more than doubled), Malaria (70%), and Giardia lamblia (14%). Decreases between 2005 and 2006 were also observed. Most notably, cases of Pertussis and Vancomycin Resistant Enterococci each dropped by about one-third in 2006. Other decreases from 2005 include Viral



Meningitis – Entero (a third fewer cases), Viral Meningitis – Echo Virus (a third fewer cases), Tuberculosis (18% decrease), and West Nile Virus (12% drop).

# Sexually Transmitted Infections & Blood-Borne Pathogens

There were **370** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in December: 259 cases of chlamydia (Ct), 75 cases of gonorrhoea (GC), 31 GC-Ct co-infections, and 5 cases of syphilis. About 63% of all GC and Ct cases in the province were reported in youth between the ages of 15 and 24 years. More than half of GC and Ct cases in December were reported for individuals from the Winnipeg health region, and an additional 19% were from the Burntwood health region. All, but one, cases of Syphilis were reported from Winnipeg health region. The total number of chlamydia infections for 2006 was 4233; reflecting a 9% increase from 2005. Gonorrhoea cases however rose by 35% in 2006 compared to 2005, reflecting 405 additional infections (1575 cases in 2006; 1171 cases in 2005).

In December **21** individuals tested positive for hepatitis C (HCV), about half of which were reported from the Winnipeg region. Two-thirds of new HCV cases in December were accounted for by individuals in the 30-49 year age group. The number of Manitobans who tested positive for hepatitis C in 2006 compared to 2005 decreased by 23% (325 cases compared to 421 in 2005). Seven new cases of HIV were reported in December, bringing the year-to-date total to 83 new cases. After a couple of years of steadily increasing rates, the number of newly reported HIV infections observed a 28% decrease in 2006 form 2005.

# Outbreak Summary

Reports of suspected or confirmed outbreaks are directed to the CDC Unit by:

- (a) a phone call/email from public health staff within a RHA;
  - (b) a phone call/email from Cadham Provincial Laboratory advising of the assignment of an outbreak code; or
  - (c) completion and submission of an outbreak form

In 2006, 144 outbreaks were reported to the Communicable Disease Control Unit; 98 of which occurred among residents of a personal care home. About 70% of the reported outbreaks were for gastrointestinal symptoms, while one quarter of the reported outbreaks (24%) were for respiratory symptoms.

An infectious agent was confirmed in a little less than half of all outbreaks (45%) in 2006. Of the 144 reported outbreaks:

- 25% were lab confirmed as Small Round Enteric Virus
- 7% Influenza A
- 5% Scabies
- 2% each Clostridium Difficile and verotoxin producing E. coli

Please feel free to contact the Communicable Disease Control Unit Epidemiologist should you have any questions about the content of this summary at Suresh.Khatkar@gov.mb.ca

Cheers,

Dr. Suresh Khatkar Epidemiologist, Communicable Diseases \*Note: 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.

\*\*Note: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes, and are not reported out for public health follow-up:

ascariasis (ICD9: 127.0) blastomycosis (ICD9: 116.0) clostridium difficile (ICD9: 558.2) haemophilus influenzae, non-B (ICD9: 041.59) influenza A (ICD9: 487.1A) influenza B (ICD9: 487.1B) leishmaniasis – unspecified (ICD9: 085.9) methicillin or vancomycin resistant staphylococcus aureus (MRSA/VRSA) penicillin-resistant streptococcus pneumoniae (ICD9: 481.9) schistosomiasis (ICD9: 120) streptococcus pneumoniae – other site (ICD9: 041.2) strongyloides (ICD9: 127.2) tuberculosis (ICD9: 013, 011, 010 – cases and contacts of tuberculosis are managed by the Provincial Tuberculosis Control Programme located at the Health Sciences Centre) vancomycin resistant enterococci (VRE)

SUMMARY OF COMMUNICABLE DISEASE FOR	December 2006

			MONT	ILY TOTAL		YEAR-T	O-DATE
ICD9	DISEASE/INFECTION	2005	2006	Expected*	Ex. Range**	2005	2006
006.9	AMEBIASIS	6	2	3	0-6	37	34
022	ANTHRAX		_		***		1
27.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-1	2	
320.82	BAC. MENINGITIS - E.COL			0	0-0	_	
320.0	BAC. MENINGITIS - HAEM		1	0	0-0		1
320.9	BAC. MENINGITIS - OTHER		•	0	0-1	1	
320.1	BAC. MENINGITIS - PNEUM		2	1	0-4	2	5
320.3	BAC. MENINGITIS - STAPH		<u> </u>	0	0-1	2	Ŭ
320.2	BAC. MENINGITIS - STREP			0	0-1		
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS		3		***		8
005.1	BOTULISM				***		0
)23	BRUCELLOSIS		1	0	0-0		1
)23 )05.2				10	0-0	3	7
	C. PERFRINGENS	15	1.4			-	-
008.43		15	14	12	<u>2-22</u> ***	275	231
558.2		116	117		***	965	1149
046.1	CREUTZFELD-JACOB DISEASE	1				1	1
007.8	CRYPTOSPORIDIOSIS			1	0-3	21	28
061.0	DENGUE FEVER			0	0-0		2
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
/02.4	DIPH.CARRIERS			0	0-1		
)32	DIPHTHERIA CASES			0	0-0		
123.4	DIPHYLLOBOTHRIUM SPP			1	0-2	3	7
0.800	E. COLI-VEROTOXIGENIC	1	10	3	0-8	38	166
)54.3	ENCEPHALITIS	1		0	0-1	1	1
005.9	FOOD POISONING OTHER		1	0	0-1		2
007.1	GIARDIA LAMBLIA	4	11	11	2-20	117	133
041.5	H.I.BNON MTGS	1		0	0-1	4	1
041.59	HAEM. INFLUENZAE (non-B)				***		1
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0	1	
070.1	HEPATITIS A			1	0-4	16	14
070.3	HEPATITIS B		1	0	0-1	6	7
070.51	HEPATITIS C	35	21	42	20-64	421	325
054.8	HERPES-W-UNSPEC COMPL	00	1	0	0-0	121	6
487.1A	INFLUENZA A		1		***		1
487.1B	INFLUENZA B		•		***		
483.0	JAPANESE ENCEPHALITIS				***		
482.83	LEGIONELLA	1		0	0-1	4	2
+ <u>82.85</u> 085.9	LEISHMANIASIS			0	0-0	4	2
)30.9	LEPROSY			0	0-0		2
	LISTERIA MONOCYTOGENES			0	0-0	5	
027.0				-			6
088.81				0	0-0	6	2
084	MALARIA			0	0-2	10	17
055.9	MEASLES			0	0-1		-
)36.0	MENINGOCOCCAL CSF			0	0-2	3	1
)36.82	MENINGOCOCCAL ARTHROPATH				***	-	
036.2	MENINGOCOCCEMIA BLOOD	1		0	0-1	3	
395.6	MRSA	142	131	40	0-98	1312	1695
)72.9	MUMPS	1	2	0	0-1	10	3
036.89	N.MENINGITIDIS OTHER		1	0	0-1	1	3
728.86	NECROTIZING FASCIITIS		3	1	0-3	8	21
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***	1	

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

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

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

			MONT	HLY TOTAL		YEAR-T	O-DATE
ICD9	DISEASE/INFECTION	2005	2006	Expected*	Ex. Range**	2005	2006
002.9	PARATYPHOID			0	0-0		
027.2	PASTEURELLA MULTOCIDA				***		
033.0	PERTUSSIS	3		6	0-15	34	10
038.2	PNEUM. SEPTICEMIA	6	10	7	2-12	77	124
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-0		
331.81	REYE'S SYNDROME				***		
391	RHEUMATIC FEVER			0	0-0		
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER	2		0	0-1	17	1
003.0	SALMONELLA	23	8	12	2-22	166	142
120	SCHISTOSOMIASIS		1	0	0-1		2
004	SHIGELLOSIS		-	1	0-4	10	11
050.9	SMALLPOX				***	. •	1
005.0	STAPHYLOCOCCAL			0	0-1		
785.5	STAPHYLOCOCCUS AUREUS		2		***		3
481.9	STREP PNEUMONIA - PR			0	0-1		
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		1
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1	2	
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	3	
127.2	STRONGYLOIDES	1		0	0-1	5	5
037	TETANUS	-		0	0-0		1
130.9	TOXOPLASMOSIS			2	0-7		1
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	1	2	0-4	26	20
011	TUBERCULOSIS - RESP.	10	3	7	1-13	89	67
010	TUBERCULOSIS-PRIM.	2	1	1	0-3	10	15
021.9	TULAREMIA	_	•	0	0-1	2	1
002.0	TYPHOID			0	0-0	-	
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	2	2		***	49	32
005.4	VIBRIO PARAHAEMOLYTICUS		_		***		
070.59	VIRAL HEP. OTHER				***		
047.0	VIRAL MENINGITIS-COXSACK		1	0	0-1	1	11
047.1	VIRAL MENINGITIS-ECHO	1		0	0-1	35	10
047.8	VIRAL MENINGITIS-ENTERO	•		Ť	***	16	5
054.72	VIRAL MENINGITIS-H SIMP			0	0-1	. 🗸	Ť
047.9	VIRAL MENINGITIS-UNSPEC			0	0-1		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION			Ŭ	***	3	1
198	WNV NEUROLOGICAL SYNDROME		1		***	10	17
197	WNV NON-NEUROLOGICAL SYND				***	45	33
066.3	WNV UNCLASSIFIED				***	U	
008.44	YERSINIA ENTEROCOLITICA			0	0-1	15	12
		377	352	Ť	Ŭ .	3892	4409

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

- \*\* Mean +/- 2 standard deviations of mean
- \*\*\* Data collected for less than 5 years.

### 15 - 19 20 - 24 25 - 29 30 - 39 40 - 49 50 - 59 70 - 79 1 - 4 5 - 9 10 - 14 60 - 69 80 + Missing <1 Total F F F F F M age/gendr ICD9 Disease Name Μ М Μ F Μ F М М F М F М F М F М F М F М 006.9 AMEBIASIS 320.0 BAC. MENINGITIS - HAEM B BAC. MENINGITIS - PNEUM 320.1 BLASTOMYCOSIS 116.0 BRUCELLOSIS 008.43 CAMPYLOBACTER CLOSTRIDIUM DIFFICILE 558.2 E.COLI 0157 0.800 FOOD POISONING OTHER 005.9 GIARDIA LAMBLIA 007.1 HEPATITIS B 070.3 070.51 HEPATITIS C HERPES-W-UNSPEC COMPL 054.8 487.1A INFLUENZA A MRSA B95.6 072.9 MUMPS 728.86 NECROTIZING FASCIITIS 036.89 NEISSERIA MGTS(0ther) SALMONELLA 003.0 SCHISTOSOMIASIS STAPHYLOCOCCUS AUREUS 785.5 038.2 STREP.PNEUMOCOCCAL SEPTIC STREPTOCOCCAL SEPTICEMIA 038.0 TUBERCULOSIS - NON-RESP. TUBERCULOSIS - RESP. TUBERCULOSIS-PRIM.

### SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR December 2006

CDC Surveillance Unit, Public Health Branch, Manitoba Health

			<1		1 -	4	5	- 9	1	10 -	14	15	- 19	20	- 24	25	- 29	30	- 39	40 -	49	50 -	· 59	60 ·	- 69	70	- 79	80	) +	Missing	Total
ICD9	Disease Name		F	Μ	F	М	F		М	F	Μ	F	M	F	м	F	M	F	M	F	М	F	М	F	М	F	Μ	F	- N	age/gendr	
B96.8	VANCOMYCIN RES. ENTER.																			1					1						2
047.0	VIRAL MENINGITIS-COXSACK															1															1
196	WNV Asymptomatic Infectio													1																	1
198	WNV Neurological Syndrome															1		1		3	3	1	3	1		1	2		1		17
197	WNV Non-Neurological Synd														2			1	2	4	6	2	8		4	1	1	1	1		33
		4	4	1	10	9	6	6	4	4	4	4	3	12	2 11	10	6	21	21	29	24	22	35	20	25	13	25	52	27		405

### SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR December 2006

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eas	stman	S.Eas	stman	Inte	lake	Cen	ntral	Assin	iboine	Park	land	Nor	man	Burn	twood	Churchill	OOP	Missing	TOTAL
Case	Referred to:*			F	Р	F	Р	F	Р	F	Ρ	F	Р	F	Р	F	Р	F	Р				
006.9	AMEBIASIS	2																					2
320.0	BAC. MENINGITIS - HAEM B																	1					1
320.1	BAC. MENINGITIS - PNEUM	1			1																		2
116.0	BLASTOMYCOSIS	2							1														3
023	BRUCELLOSIS	1																					1
008.43	CAMPYLOBACTER	4	1								2		5		2								14
558.2	CLOSTRIDIUM DIFFICILE	67	7		1		3		6		8		8		9		1	3	4				117
008.0	E.COLI 0157	7							1		2												10
005.9	FOOD POISONING OTHER								1														1
007.1	GIARDIA LAMBLIA	4	2				2				2							1					11
070.3	HEPATITIS B	1																					1
070.51	HEPATITIS C	10	1		2				2		2		1		1						2		21
054.8	HERPES-W-UNSPEC COMPL	1																					1
487.1A	INFLUENZA A						1																1
B95.6	MRSA	45	8	4	1		1		3				6			2	9	33	18			1	131
072.9	MUMPS	2																					2
728.86	NECROTIZING FASCIITIS																	3					3
036.89	NEISSERIA MGTS(0ther)														1								1
003.0	SALMONELLA	2					3		2				1										8
120	SCHISTOSOMIASIS	1																					1
785.5	STAPHYLOCOCCUS AUREUS	1											1										2
038.2	STREP.PNEUMOCOCCAL SE	3									1		1				2	2				1	10
038.0	STREPTOCOCCAL SEPTICEM	1																1					2
013	TUBERCULOSIS - NON-RESP.	1																					1
011	TUBERCULOSIS - RESP.	1																2					3
010	TUBERCULOSIS-PRIM.																	1					1
B96.8	VANCOMYCIN RES. ENTER.	1							1														2
047.0	VIRAL MENINGITIS-COXSACK	1																					1
196	WNV Asymptomatic Infectio								1														1
198	WNV Neurological Syndrome	7			1		2		5		2												17

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

CDC Surveillance Unit, Public Health Branch, Manitoba Health

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eas	stman	S.Eastma	an	Inter	lake	Cer	ntral	Assin	iboine	Park	land	Nor	man	Burnt	wood	Churchill	OOP	Missing	TOTAL
Case	Referred to:*			F	Р	F F	>	F	Ρ	F	Ρ	F	Р	F	Р	F	Ρ	F	Ρ				
197	WNV Non-Neurological Synd	10			1	1			5		9		6						1				33
		176	19	4	7	1:	3		28		28		29		13	2	12	47	23		2	2	405
Missin	g Investigation Forms																	-					
(Jan.1	to end of November)	195	11	1		24	1	3	4	1	5		9		2		1	4	4	1	1	5	271

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

CDC Surveillance Unit, Public Health Branch, Manitoba Health

### STD Infection Summary Report - December 2006

	MONTHL	Y TOTAL	YEAR-T	O-DATE
DISEASE/INFECTION	2005	2006	2005	2006
All Chlamydia Infections	288	290	3870	4233
All Gonorrhea Infections (including PRNG)	137	106	1170	1575
All Syphilis Infections	5	5	84	60
Gonorrhea & Chlamydia Co-infections	38	31	458	498
Penicillin Resistant Gonorrhea Infections (PRNG)			1	
Suspect PRNG				
HIV	13	7	116	83

# Total Number of STD Cases by Age and Gender - December 2006

	<	<1		1 -	4	5	- 9	10 -	14	15 -	19	20 -	24	25 ·	- 29	30 -	39	40 -	49	50 -	59	60 -	- 69	70	- 79	8	0 +	Missing	Total
Disease Name	F		М	F	Μ	F	М	F	Μ	F	М	F	М	F	М	F	М	F	Μ	F	М	F	М	F	М	F	FN	age/gendr	
Chlamydia Only Cases	1							4	1	62	24	57	28	19	17	13	23	1	4	1	4								259
Gonorrhea Only Cases										5	7	12	14	8	9	3	7	1	6		2		1						75
Syphilis Only Cases														1	1				1	1	1								5
GC and CT Cases										6	4	6	3	1	5	1	1		4										31
	1							4	1	73	35	75	45	29	32	17	31	2	15	2	7		1						370
HIV	]													1		2	3				1						Ì		7

### **Regional STD Distribution - December 2006**

Disease/Infection	Winnipeg	Brandon	N.Eas	stman	S.Eas	tman	Inter	lake	Cen	tral	Assin	iboine	Park	land	Nor	man	Burnt	wood	Churchill	OOP	Missing	TOTAL
Case Referred to:*			F	Р	F	Р	F	Р	F	Ρ	F	Р	F	Р	F	Р	F	Р				
All Chlamydia Infections	137	16	9			5	3	6		18		8	2	13	4	15	35	17		2		290
All Gonorrhea Infections	58	1	4	3		1		1		7			1	2		3	18	7				106
All Syphilis Infections	4									1												5
GC and CT Infections	13		4							2				1		2	7	2				31

Missing Investigation Forms																		
(Jan.1 to end of November)	88	9	6	3		4	5	6	10	2	3	26	2	24	14	1	1	204

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