



Health

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Dear Colleague,

Please find attached a copy of “**Summary of Communicable Diseases for the Month of December 2005**” for your review. This report reflects the number of reportable communicable diseases for which individuals in Manitoba tested positive* during the month of December 2005. 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 **358** new infections occurring across 21 communicable diseases** (excluding sexually transmitted infections and HIV) in December 2005. The observed number of cases was within the expected range for most of the reported communicable diseases, with the exception of Legionella (observed 3 cases; expect 0-1 cases) and Methicillin Resistant Staphylococcus Aureus (MRSA; 144 cases observed; expected range = 0-70 cases). The expected number of cases and accompanying range is based on the number of reported cases during November and December 2000-2004 and January 2001-2005.

Comparing 2005 year end totals with those in 2004, the Communicable Disease Control Unit witnessed a 48% increase in the overall number of reportable communicable diseases. Much of this increase is due to the recent reportability of Clostridium difficile (beginning in April 2005), accounting for one-quarter of all non-STI/HIV related communicable diseases reported to Manitoba Health. The remainder of the overall increase is mostly accounted for by Methicillin and/or Vancomycin Resistant Staphylococcus Aureus (MRSA/VRSA) which make up about one-third of non-STI/HIV related reportable diseases; MRSA cases rose by more than 50% between 2004 and 2005. Other diseases showing increases from 2004 to 2005 include Pneumococcal Septicemia (59% increase), Amebiasis (47% increase), West Nile Virus (58 cases in 2005 compared to 3 in 2004), Mumps (a 4-fold increase from 2004), Lyme Disease, and Listeria (both showing a 5-fold increase). Decreases from 2004 were observed for some diseases, most notably Clostridium perfringens (70% decrease), E. coli (one-third fewer cases), Giardia Lamblia (27% decrease), Pertussis (62% decrease), and Vancomycin Resistant Enterococci (two-thirds fewer cases).

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **391** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in December: 250 cases of chlamydia (Ct), 99 cases of gonorrhoea (GC), 37 GC-Ct co-infections, and 5 cases of syphilis. About 60% 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 28% were from the Burntwood health region.

The total number of chlamydia infections for 2005 was 3871; reflecting an 8% decrease from 2004. Gonorrhoea cases however rose by 7% in 2005 compared to 2004, reflecting 79 additional infections (1171 cases in 2005; 1092 cases in 2004).

In December **35** 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 males, mostly in the 30-49 year age group. There was virtually no change in the number of Manitobans who tested positive for hepatitis C in 2005 compared to 2004 (422 cases compared to 432 in 2004). Thirteen new cases of HIV were reported in December, bringing the year-to-date total to 120 new cases; reflecting a 13% increase from 2004. Because HIV is tested with a code but not a name, it is possible that some of these new cases may be duplicates; this figure may be refined as further client information is obtained.

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 2005, 117 outbreaks were reported to the Communicable Disease Control Unit. More than three-quarters of these outbreaks (91 of 117) occurred in personal care homes. About half of the reported outbreaks (54%) were for respiratory outbreaks, and an additional 39% reported gastrointestinal symptoms.

An infectious agent was confirmed in a little more than half of all outbreaks (56%) in 2005. Of the 117 reported outbreaks:

- 12% were lab confirmed as Small Round Enteric Virus, and
- 31% confirmed Influenza,

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

Cheers,

Dr. Carole Beaudoin
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)

clostridium difficile (ICD9: 558.2)

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 2005

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2004	2005	Expected*	Ex. Range**	2004	2005
006.9	AMEBIASIS	3	2	3	0-7	21	31
022	ANTHRAX				***		
127.0	ASCARIASIS	3		0	0-0	3	
005.8	B. CEREUS			0	0-1	3	2
320.82	BAC. MENINGITIS - E.COL			0	0-0		
320.0	BAC. MENINGITIS - HAEM			0	0-1		
320.9	BAC. MENINGITIS - OTHER			0	0-1		1
320.1	BAC. MENINGITIS - PNEUM			1	0-4	5	2
320.3	BAC. MENINGITIS - STAPH			0	0-1	1	
320.2	BAC. MENINGITIS - STREP	1		0	0-1	2	
320.7	BAC.MENINGITIS-LISTERIA				***		
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS	1		10	0-71	10	3
008.43	CAMPYLOBACTER	16	14	11	1-21	244	271
558.2	CLOSTRIDIUM DIFFICILE		112		***	4	953
046.1	CREUTZFELD-JACOB DISEASE		1		***		1
007.8	CRYPTOSPORIDIOSIS			1	0-3	22	20
065.4	DENGUE FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		
032	DIPHThERIA CASES			0	0-0	1	
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	7	2
008.0	E. COLI-VEROTOXIGENIC		2	3	0-8	59	38
054.3	ENCEPHALITIS		1	0	0-1		1
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	12	7	11	3-19	152	110
041.5	H.I.B.-NON MTGS		1	0	0-1	5	4
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		1
070.1	HEPATITIS A			1	0-4	19	16
070.3	HEPATITIS B	1		1	0-2	5	4
070.51	HEPATITIS C	29	35	44	21-67	432	422
054.8	HERPES-W-UNSPEC COMPL			0	0-0		
A83.0	JAPANESE ENCEPHALITIS				***		
482.83	LEGIONELLA		3	0	0-1	2	5
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0	3	
027.0	LISTERIA MONOCYTOGENES			0	0-1	1	5
088.81	LYME DISEASE			0	0-0	1	5
084	MALARIA	1		1	0-3	10	10
055.9	MEASLES		1	0	0-1	1	1
036.0	MENINGOCOCCAL CSF			0	0-2		2
036.82	MENINGOCOCCAL ARTHROPATH				***		
036.2	MENINGOCOCCAL BLOOD		1	0	0-1		3
B95.6	MRSA/VRSA	71	144	27	0-70	838	1314
072.9	MUMPS			0	0-1	2	9
036.89	N.MENINGITIDIS OTHER			0	0-1	8	2
728.86	NECROTIZING FASCIITIS	1		1	0-3	6	6
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		1
002.9	PARATYPHOID			0	0-1		
027.2	PASTEURELLA MULTOCIDA				***		
033.0	PERTUSSIS	12	2	5	0-12	83	31
038.2	PNEUM. SEPTICEMIA	7	6	7	2-12	49	78
073.9	PSITTACOSIS			0	0-0		

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

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2004	2005	Expected*	Ex. Range**	2004	2005
083.0	Q FEVER			0	0-0		
331.81	REYE'S SYNDROME				***		
391	RHEUMATIC FEVER			0	0-1	5	
056.9	RUBELLA			0	0-1		
771.0	RUBELLA CONGENITAL			0	0-0		
041.2	S.PNEUM.OTHER		2	0	0-1	17	17
003.0	SALMONELLA	10	14	12	3-21	158	155
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS			2	0-6	16	11
005.0	STAPHYLOCOCCAL			0	0-1		
785.5	STAPHYLOCOCCUS AUREUS				***		
481.9	STREP PNEUMONIA - PR			0	0-0	2	
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-1		
040.89	STREPT TOXIC SHOCK			1	0-2		2
481	STREPTOCOCCUS PNEUMONIAE			0	0-1	5	3
127.2	STRONGYLOIDES	1		0	0-0	2	4
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			3	0-8		
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	1		2	0-4	27	22
011	TUBERCULOSIS - RESP.	12	5	7	2-12	95	79
010	TUBERCULOSIS-PRIM.		2	1	0-4	20	10
021.9	TULAREMIA			0	0-1	1	2
002.0	TYPHOID			0	0-1		
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	10	2		***	161	49
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
047.0	VIRAL MENINGITIS-COXSACK			0	0-1	8	1
047.1	VIRAL MENINGITIS-ECHO		1	0	0-1	32	35
047.8	VIRAL MENINGITIS-ENTERO				***	11	16
054.72	VIRAL MENINGITIS-H SIMP			0	0-1		
047.9	VIRAL MENINGITIS-UNSPEC			0	0-1	1	
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***		3
198	WNV NEUROLOGICAL SYNDROME				***		11
197	WNV NON-NEUROLOGICAL SYND				***		42
066.3	WNV UNCLASSIFIED				***	3	2
008.44	YERSINIA ENTEROCOLITICA			0	0-1	11	15
		192	358			2574	3833

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

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR December 2005

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 +		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		
006.9	AMEBIASIS															1						1			2
008.43	CAMPYLOBACTER			1						1	1	1		1		3	1		4			1			14
558.2	CLOSTRIDIUM DIFFICILE				1					1	2			1		5	1	3	1	7	9	46	35		112
046.1	CREUTZFELD JACOB DISEASE																					1			1
008.0	E.COLI 0157																	1		1					2
054.3	ENCEPHALITIS																			1					1
007.1	GIARDIA LAMBLIA									1		1	1			2	1						1		7
041.5	HAEM.INFLUENZA B (not csf																					1			1
070.51	HEPATITIS C									1	1	2	3	2	2	8	4	6		4		1	1		35
482.83	LEGIONELLA																					2	1		3
055.9	MEASLES				1																				1
036.2	MENINGOCOCCEMIA(MGCCCEMIA								1																1
B95.6	MRSA/VRSA	3	3	1	7	5	2	2	2	4	3	3		3	3	7	7	9	10	6	4	27	32	1	144
033.0	PERTUSSIS	1	1																						2
003.0	SALMONELLA			2											2		1	1		3	1	1	3		14
041.2	STREP.PNEUM.OTHER																					2			2
038.2	STREP.PNEUMOCOCCAL SEPTIC		2			1										1	1					1			6
038.0	STREPTOCOCCAL SEPTICEMIA			1																					1
011	TUBERCULOSIS - RESP.									1	1			1		1						1			5
010	TUBERCULOSIS-PRIM.				1					1															2
B96.8	VANCOMYCIN RES. ENTER.													1								1			2
047.1	VIRAL MENINGITIS-ECHO					1																			1
196	WNV Asymptomatic Infectio																	1			1		1		3
197	WNV Fever					1	1			1	1			1		5	4	8	4	4	4	5	3		42
198	WNV Neurological Syndrome								1							1			1	1	3	1	3		11
066.3	WNV Unclassified																	1	1						2

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 +		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		
		4	6	5	10	8	3	2	4	5	10	8	4	10	9	22	28	30	23	27	26	84	87		417

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR December 2005

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
008.43	CAMPYLOBACTER	4	1				5				1		2		1								14
558.2	CLOSTRIDIUM DIFFICILE	71	10		3		5	2	5		6		7		1			1			1		112
046.1	CREUTZFELD JACOB DISEASE	1																					1
008.0	E.COLI 0157										2												2
054.3	ENCEPHALITIS	1																					1
007.1	GIARDIA LAMBLIA	6											1										7
041.5	HAEM.INFLUENZA B (not csf	1																					1
070.51	HEPATITIS C	19	3		1			5			3		1								3		35
482.83	LEGIONELLA	2																1					3
055.9	MEASLES												1										1
036.2	MENINGOCOCCEMIA(MGCCE	1																					1
B95.6	MRSA/VRSA	70	2						2	1	3		6		1	7	9	35	8				144
033.0	PERTUSSIS			1																	1		2
003.0	SALMONELLA	13															1						14
041.2	STREP.PNEUM.OTHER	2																					2
038.2	STREP.PNEUMOCOCCAL SE	4									2												6
038.0	STREPTOCOCCAL SEPTICEM	1																					1
011	TUBERCULOSIS - RESP.			1														4					5
010	TUBERCULOSIS-PRIM.	1																1					2
B96.8	VANCOMYCIN RES. ENTER.	1									1												2
047.1	VIRAL MENINGITIS-ECHO	1																					1
196	WNV Asymptomatic Infectio	1					1				1												3
197	WNV Fever	9	3		2		2		4		10		12										42
198	WNV Neurological Syndrome	5	1						1		1		3										11
066.3	WNV Unclassified	2																					2
		218	20	2	6		13	7	12	1	30		33		3	7	10	41	9		5		417
Missing Investigation Forms (Jan.1 to end of November)		99	7	1	1		14	5	2	2	6	1	32		1		3	6	2		3		185

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

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STD Infection Summary Report - December 2005

DISEASE/INFECTION	MONTHLY TOTAL		YEAR-TO-DATE	
	2004	2005	2004	2005
All Chlamydia Infections	295	287	4221	3871
All Gonorrhea Infections (including PRNG)	83	136	1092	1171
All Syphilis Infections	7	5	62	84
Gonorrhea & Chlamydia Co-infections	32	37	447	457
Penicillin Resistant Gonorrhea Infections (PRNG)				1
Suspect PRNG				
HIV	10	13	106	120

Total Number of STD Cases by Age and Gender - December 2005

Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 +		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		
Chlamydia Only Cases							1	1	60	21	53	43	17	22	12	13	1	3		1		2		250
Gonorrhea Only Cases							1		7	6	11	9	6	10	4	28	1	11		2	1	1		99
Syphilis Only Cases													1	1	1		1	1						5
GC and CT Cases							2		9	3	10	3	2	4	1	1		1		1				37
							4	1	76	30	74	55	25	37	18	43	2	16	1	4	1	3		391
HIV													1		2	2	2	2		2	1		1	13

Regional STD Distribution - December 2005

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	149	12	3	5		1		19	1	16		8		11	4	13	25	18		2		287
All Gonorrhea Infections	89		6	4		3	1	2		10			1	2	1	4	8	5				136
All Syphilis Infections	2		1					1		1												5
GC and CT Infections	24		1	1				1		3					2	3	2					37

Missing Investigation Forms (Jan.1 to end of November)	116	28	13	5		3	2	5	2	7		19	2	2	2	3	33	10		1	1	254
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* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction