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 ranged 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 many 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)
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* 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.
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* 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

<p>| 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 | F | M | F | M | F | M | F | M | F | M | F | M | F | M | Missing age/gender | Total |
| 006.9 | AMEBIASIS                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| 008.43| CAMPYLOBACTER                | 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 |     |
| 008.0 | E.COLI 0157                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| 054.3 | ENCEPHALITIS                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |     |
| 007.1 | GIARDA LAMBLIA               | 1 | 1 | 1 | 1 | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7 |     |
| 041.5 | HAE.M.INFLUENZA B (not csf)  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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/MGCCEMIA     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |     |
| B95.6 | MRSA/VRSA                    | 3 | 3 | 1 | 7 | 5 | 2 | 2 | 4 | 3 | 3 | 3 | 7 | 7 | 9 | 10 | 6 | 4 | 27 | 32 | 1 | 144 |
| 033.0 | FERTUSSIS                    | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| 003.0 | SALMONELLA                   | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 14 |
| 041.2 | STREP.PNEUM.OTHER            |   |   |   |   |   |   |   | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| 038.2 | STREP.PNEUMOCOCCAL SEPTIC    | 2 | 1 |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6 |     |
| 038.0 | STREPTOCOCCAL SEPTICEMIA     | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |     |
| 011   | TUBERCULOSIS - RESP.         |   |   | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5 |     |
| 010   | TUBERCULOSIS-PRIM.           | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| B96.8 | VANCOMYCIN RES. ENTER.       | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| 047.1 | VIRAL MENINGITIS-ECHO        |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |     |
| 196   | WNV Asymptomatic Infectio    |   |   |   |   |   |   |   |   |   | 1 | 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 | 3 | 1 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11 |
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| 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
### STD Infection Summary Report - December 2005

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

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<th>15 - 19</th>
<th>20 - 24</th>
<th>25 - 29</th>
<th>30 - 39</th>
<th>40 - 49</th>
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### Regional STD Distribution - December 2005

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<th>Central</th>
<th>Assiniboine</th>
<th>Parkland</th>
<th>Norman</th>
<th>Burntwood</th>
<th>Churchill</th>
<th>OOP</th>
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